XR-C100

SERVICE MANUAL

AEP Model
UK Model
E Model

Model Name Using Similar Mechanism	XR-C110
Tape Transport Mechanism Type	MG-36SZ7-32

SPECIFICATIONS

Cassette player section

Tape track	4-track 2-channel stereo
Wow and flutter	0.13 % (WRMS)
Frequency response	30 – 15,000 Hz
Signal-to- noise ratio	55 dB

Tuner section

FM

Tuning range	AEP, UK model : 87.5 – 108.0 MHz E model : FM tuning interval: 50 kHz/200 kHz switchable 87.5 – 108.0 MHz (at 50 kHz step) 87.5 – 107.9 MHz (at 200 kHz step)
Antenna terminal	External antenna connector
Intermediate frequency	10.7 MHz
Usable sensitivity	12 dBf (75 ohms)
Selectivity	70 dB at 400 kHz
Signal-to-noise ratio	63 dB (stereo), 68 dB (mono)
Harmonic distortion at 1 kHz	0.5% (stereo), 0.4% (mono)
Separation	28 dB at 1 kHz
Frequency response	30 – 15,000 Hz
Capture ratio	5 dB

AM

Tuning range	AEP, UK model : 531 – 1,602 kHz E model : AM tuning interval: 9 kHz/10kHz switchable 531 – 1,602 kHz (at 9 kHz step) 530 – 1,710 kHz (at 10 kHz step)
Antenna terminal	External antenna connector
Intermediate frequency	450 kHz
Sensitivity	35 µV

Power amplifier section

Outputs	Speaker outputs (sure seal connectors)
Speaker impedance	4 – 8 ohms
Maximum power output	20 W × 4 (at 4 ohms) (E model) 25 W x 4 (at 4 ohms) (AEP, UK model)

General

Output lead	Power antenna relay control lead/Power amplifier control lead
Tone controls	Bass ±8 dB at 100 Hz Treble ±8 dB at 10 kHz
Power requirements	12 V DC car battery (negative ground)
Dimensions	Approx. 188 × 58 × 170 mm (w/h/d) not incl. projecting parts and controls
Mounting dimension	Approx. 182 × 53 × 153 mm (w/h/d) not incl. projecting parts and controls
Mass	Approx. 1.3 kg
Supplied accessories	Parts for installation and connections (1 set) Front panel case (1)

Design and specifications are subject to change without notice.

FM/AM CASSETTE CAR STEREO

SONY®

TABLE OF CONTENTS

1. GENERAL

Button Locations 3
Setting the Clock 3
Cassette Player Operation 3
Radio Reception 4
Other Functions 5
CD Changer Operation 5
Maintenance 5
Connections 6

2. DISASSEMBLY

2-1. Cover 8
2-2. Lock Assy 8
2-3. MD Block 9
2-4. Heat Sink 9
2-5. Main Board 10

3. MECHANICAL ADJUSTMENTS 11

4. ELECTRICAL ADJUSTMENTS

Deck Section 11
Tuner Section 12

5. DIAGRAMS

5-1. IC Pin Description 17
5-2. Printed Wiring Boards 20
5-3. Schematic Diagram 23

6. EXPLODED VIEWS

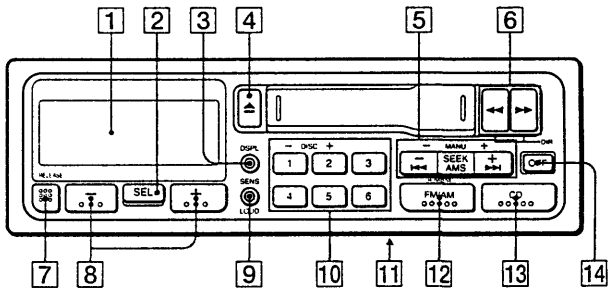
6-1. Chassis Section 27
6-2. Front Panel Section 28
6-3. Mechanism Section (1) 29
6-4. Mechanism Section (2) 30

7. ELECTRICAL PARTS LIST 31

Notes on Chip Component Replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Button Locations



Refer to the pages in ● for details.

1 Display window
2 SEL (control mode select) button ❺❽
3 DSPL (display mode change/time set) button ❺
4 ≙ (eject) button ❺
5 SEEK/AMS/MANU button ❻❼❽
6 ◄◄ • ►► (fast winding)/DIR (tape transport direction change) buttons ❺❻
7 RELEASE (front panel release) button ❹❾
8 [−] [+] (bass/treble/balance/fader control/volume) buttons ❺❽
9 SENS/LOUD (sensitivity adjust/loudness) button ❻❽
10 During radio reception:
Preset number buttons ❼
During CD playback:
[1] [2] (changing discs) buttons ❾
11 Frequency Select switch (located on the bottom of the unit)
See "Frequency Select Switch" in the Installation/Connections manual.
12 FM/AM/A.MEM (radio on • band select/automatic memory) button ❺❻❼
13 CD (disc play/CD changer select) button ❽❾
14 OFF button ❹

EN

Setting the Clock

The clock has a 12-hour digital indication.

For example, setting it to 10:08

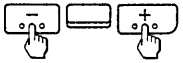
1 Press the [FM/AM] button to turn on the unit.

2 Display the time.
(Press the ◎ button during unit operation.)

3 Press the ◎ button for more than two seconds.

The hour digit blinks.

Set the hour digits.



(to go back) (to go forward)

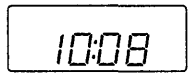
4 Press the [SEL] button momentarily.

The minute digit blinks.

Set the minute digits.

(to go back) (to go forward)

5 Press the ◎ button momentarily.



The clock activates.

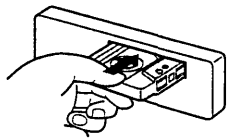
Note

The clock cannot be set unless the power is turned on. Set the clock after you turn on the radio, or during tape playback.

Cassette Player Operation

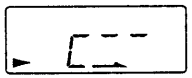
Listening to Tape Playback

After inserting the cassette, playback will start automatically.

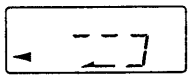


To change the tape direction,
press both the ◄◄ and the ►► buttons at the same time.

Indication of Tape Transport Direction



The side facing up is being played.



The side facing down is being played.

Tape playback automatically changes direction at the end of the tape.

Note

Before turning off the unit, eject the tape to avoid tape damage.

Ejecting the Cassette

Press the ≙ button to stop playback and eject the cassette.

EN

This section is extracted from E model's instruction manual.

Fast-winding the Tape

Direction indicator*	To advance	To rewind
►		
◄		

To resume playback, press the other fast-winding button partially until the locked button is released.

* *The ◄ or ► indicator flashes while fast-winding the tape.*

EN

Radio Reception

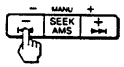
Searching for Stations Automatically

— Automatic Tuning

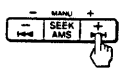
1 Select the desired band.

FM I → FM II → AM → FM I

2 Press either side of the SEEK/AMS/MANU button momentarily to search for the next station (automatic tuning).



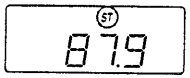
For lower frequencies



For higher frequencies

The scanning stops when a station is received. Press either side of the button repeatedly until the desired station is received.

When an FM stereo program with a sufficient signal strength is tuned in,



the "ST" indication will appear.

To avoid the automatic tuning from stopping on stations too frequently (local seek mode), press the LCL button momentarily to get the "LCL" indication.

Only the stations with relatively strong signals are tuned in. The local seek mode functions only when the automatic tuning is in operation.

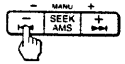
Tuning in by Adjusting the Frequency — Manual Tuning

1 Select the desired band.

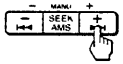
FM I → FM II → AM → FM I

2 Press and hold either side of the SEEK/AMS/MANU button.

Release the button when the desired station is received.



For lower frequencies



For higher frequencies

PREVENT ACCIDENTS!

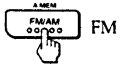
When tuning in during driving, use the automatic tuning and the memory preset tuning instead of the manual tuning.

Memorizing Stations Automatically

— Automatic Memory Function

Stations with the clearest reception are automatically searched and memorized on each band (FM I, FM II and AM). Up to 6 stations on each band can be stored on the preset number buttons 1 to 6 in the order of band frequency.

1 Select the desired band.



FM I → FM II → AM → FM I

2 Press the FM/AM/A.MEM button for more than two seconds.

The unit starts scanning the selected band and memorize the tuned stations on the preset number button 1 through 6 automatically.

Memorizing Only the Desired Stations

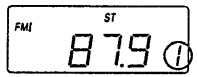
1 Select the desired band.

FM I → FM II → AM → FM I

2 Tune in the station which you wish to store on the preset number button.

3 Press and hold the desired preset number button (1 to 6) for about two seconds.

The number of the pressed preset number button appears on the display.



Up to 6 stations on each band (FM I, FM II and AM) can be stored on the preset number buttons in the order of your choice. Therefore, 12 stations can be memorized on FM. If you try to store another station on the same preset number button, the previously stored station is erased.

Receiving the Memorized Stations

1 Select the desired band.

FM I → FM II → AM → FM I

2 Press momentarily the preset number button on which the desired station is stored.

Note

If you press the preset number button for more than two seconds, the currently received station is memorized. To receive the previously memorized station, make sure that the preset number button is pressed only momentarily.

EN

Other Functions

Adjusting the Sound Characteristics

1 Select the item you want to adjust by pressing the SEL button repeatedly.

BAS (bass) → TRE (treble) → BAL (balance) → FAD (fader) → VOL (volume) → BAS (bass)

2 Adjust the selected item by pressing either the − or + button.

Adjust within three seconds after selecting. (After three seconds the button will again serves as the volume control button.)

Enjoying Bass and Treble at Low Volume

— Loudness Function

Press the LOUD button for more than two seconds. → "LOUD" will appear on the display.

Bass and treble are boosted. To cancel, press again.

CD Changer Operation

With the optional CD changer(s) connected

Playing a CD

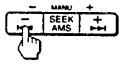
Press the CD button.

CD playback starts.

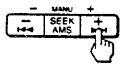
Locating the Beginnings of the Tracks

— AMS (Automatic Music Sensor) Function

During playback, press either side of the SEEK/AMS/MANU button the number of times you wish to skip the tracks.



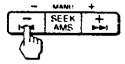
To locate the previous tracks



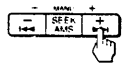
To locate the succeeding tracks

Locating the Desired Part of a Track —Manual Search

During playback, press and hold either side of the SEEK/AMS/MANU button. Release the button when you have found the desired part.



To reverse



To forward

Changing Discs

During playback, press either the 1 or 2 button momentarily.

To return to the previous disc

To advance to the next disc

Selecting CD Changers

(with two CD changers connected)

Press the CD button during CD playback.

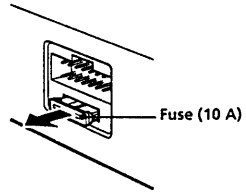
Each time you press, another CD changer will be selected.

CD I ⟷ CD II

Maintenance

Fuse Replacement

When replacing the fuse, be sure to use one matching the amperage rating stated on the fuse. If the fuse blows, check the power connection and replace the fuse. If the fuse blows again after replacement, there may be an internal malfunction. In such a case, consult your nearest Sony dealer.

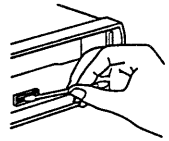


Warning

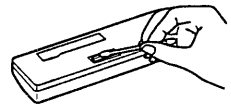
Never use a fuse with an amperage rating exceeding the one supplied with the unit as this could damage the unit.

Cleaning the Connectors

The unit may not function properly if the connectors between the unit and the front panel are not clean. In order to prevent this, open the front panel by pressing the RELEASE button, then detach it and clean with a cotton swab dipped in alcohol. Do not apply too much force. Otherwise, the connector may get damaged.



Main unit



Back of the front panel

Connections

Caution

- This unit is designed for negative ground 12 V DC operation only.
- Before making connections, disconnect the ground terminal of the car battery to avoid short circuits.
- Connect the **yellow** and **red** power input leads only after all other leads have been connected.
- Be sure to connect the red power input lead to the positive 12 V power terminal which is energized when the ignition key is in the accessory position.
- **Run all earth wires to a common earth point.**

Frequency Select Switch

The AM (FM) tuning interval is factory-set to the 9K (50K) position. If the frequency allocation system of your country is based on 10 kHz (200 kHz) interval, set the switch on the bottom of the unit to the 10K (200K) position before making connections.

Conexiones

Precauciones

- Esta unidad ha sido diseñada para alimentación de 12 V CC, toma a tierra negativa solamente.
- Antes de realizar las conexiones, desconecte el conductor de puesta a masa de la batería del automóvil a fin de evitar cortocircuitos.
- Conecte los cables conectores de alimentación **amarillo** y **rojo** solamente después de haber conectado los demás.
- Cerciorese de conectar el cable conector de alimentación rojo a un terminal de 12 V positivo que se energice al poner la llave de encendido en la posición para accesorios.
- **Conecte todos los conductores de puesta a masa a un punto común.**

Selector de frecuencia

El intervalo de sintonía de AM (FM) ha sido ajustado en fábrica a la posición 9K (50K). Si el sistema de asignación de frecuencias de su país se basa en el intervalo de 10 kHz (200 kHz), ponga este selector, situado en la base de la unidad, en la posición 10 K (200K) antes de realizar las conexiones.

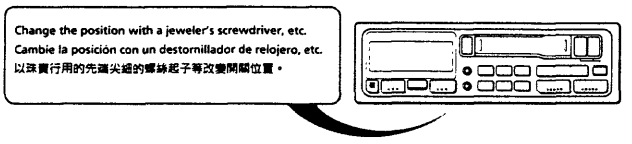
線路之連接

注意

- 本機只可使用負極接地12V直流電操作。
- 連接以前，先拆卸汽車電池的接地端子，以免發生短路。
- **紅色**及**黃色**電源輸入導線之前等所有電線都連接完畢以後才可連接。
- 紅色電源輸入導線請連接到汽車發動機點火鑰匙處轉在輔助位置時有通電的正12V電源端子。
- **所有地線都必需連接到同一接地點才行。**

頻率選擇開關

本裝置的 AM (FM) 調諧間隔已設成前廠設定在「9K (50K)」位置上。若貴地的頻率分配系統為「10 kHz (200 kHz)」，連接以前請先把本機機底的選擇開關設定在「10K (200K)」之處。


Change the position with a jeweler's screwdriver, etc.
Cambie la posición con un destornillador de relojero, etc.
以珠寶行用的先端尖細的螺絲起子等改變開關位置。

Connection Diagram

Example 1/Ejemplo 1/例 1

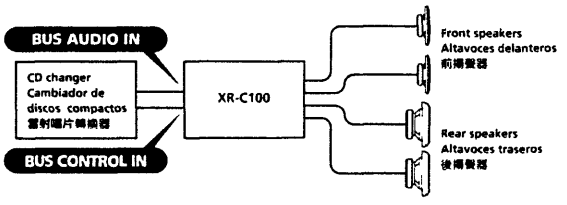
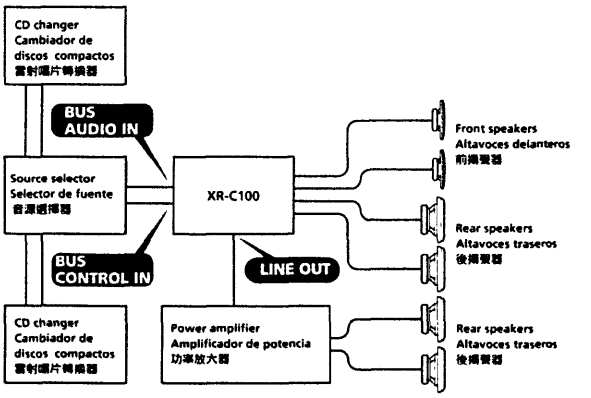


Diagrama de conexiones

Example 2/Ejemplo 2/例 2

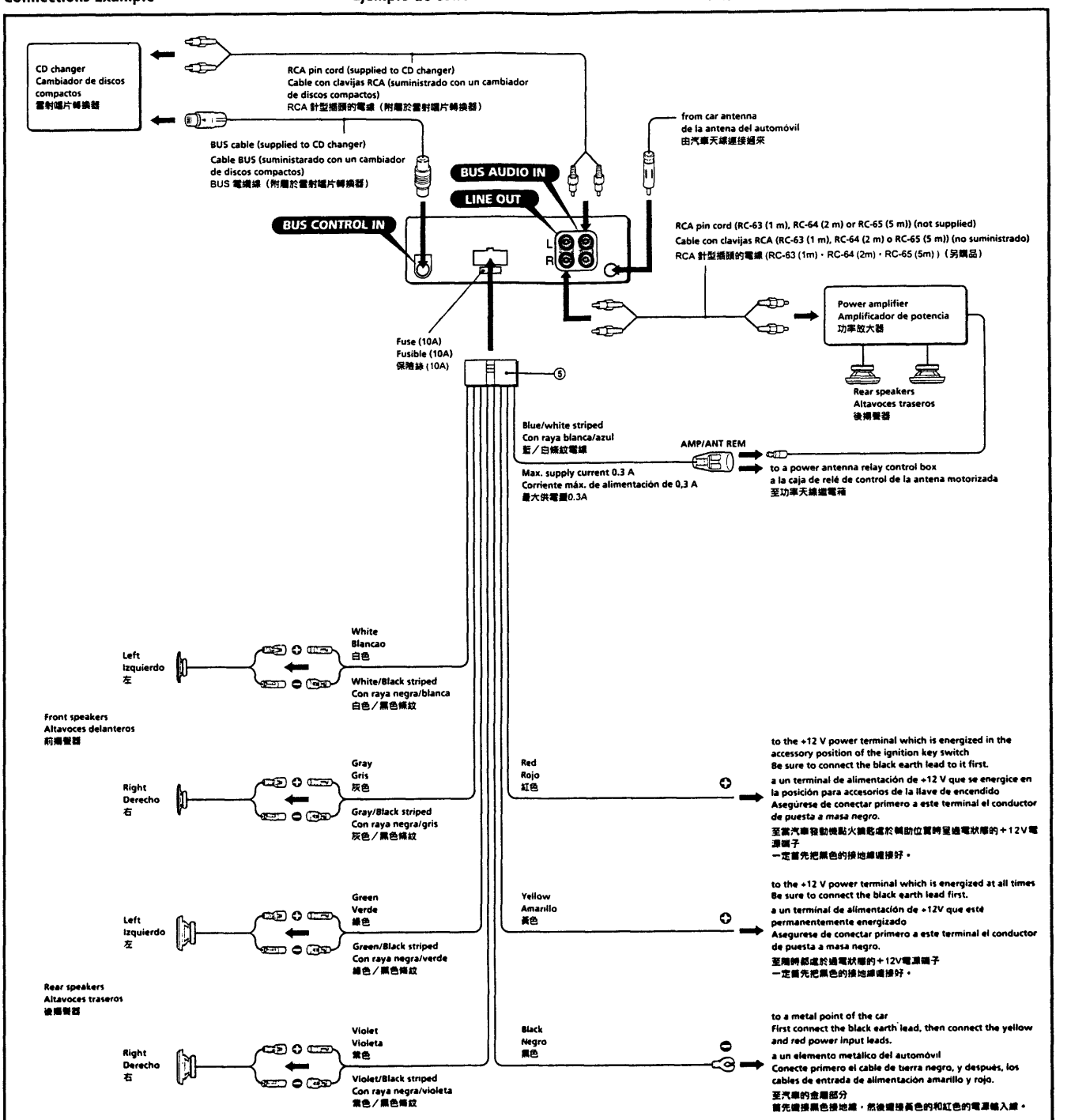


For connecting two changers, the source selector XA-C30 (optional) and the BUS cable RC-61 (1 m) or RC-62 (2 m) (optional) are necessary.

Cuando desee conectar dos cambiadores, necesitará un selector de fuente XA-C30 (opcional) y un cable BUS RC-61 (1 m) o RC-62 (2 m) (opcional).

若連接2套轉換器時，必需另外購買音源選擇器XA-C30（可選用）及連接線RC-61（1M）或RC-62（2M）（可選用）。

Connections Example　　Ejemplo de conexiones　　線路之連接圖例



Notes on the control leads
- *The power antenna control lead (blue/white striped) supplies +12 V DC when you turn on the unit*
- *A power antenna without relay box cannot be used with this unit.*

Memory hold connection

When the yellow power input lead is connected, power will always be supplied to the memory circuit even when the ignition key is turned off

Notes on speaker connection
- *Before connecting the speakers, turn the unit off.*
- *Use speakers with an impedance of 4 to 8 ohms, and with adequate power handling capacities. Otherwise, the speakers may be damaged.*
- *Do not connect the terminals of the speaker system to the car chassis, and do not connect the terminals of the right speaker with those of the left speaker.*
- *Do not attempt to connect the speakers in parallel.*
- *Do not connect any active speakers (with built-in amplifiers) to the speaker terminals of the unit. Doing so may damage the active speakers. Therefore, be sure to connect passive speakers to these terminals.*

Notas sobre conductores de control
- *El conductor de control de la antena motorizada (con raya blanca/azul) suministrara +12 V CC cuando encienda la unidad*
- *Con esta unidad no podrá emplearse una antena motorizada desprovista de caja de relé.*

Conexión para protección de la memoria

Si conecta el conductor de entrada amarillo, el circuito de la memoria recibirá siempre alimentacion, incluso aunque ponga la llave de encendido en la posición OFF

Notas sobre la conexión de los altavoces
- *Antes de conectar los altavoces, desconecte la alimentacion de la unidad*
- *Utilice altavoces con una impedancia de 4 a 8 Ohmios, y con la potencia máxima admisible adecuada, ya que de lo contrario podría dañarlos.*
- *No conecte los terminales del sistema de altavoces al chasis del automóvil, ni los del altavoz izquierdo a los del derecho.*
- *No intente conectar los altavoces en paralelo.*
- *No conecte altavoces activos (con amplificador incorporado) a los terminales de altavoces de la unidad. Si lo hiciese, podría dañar tales altavoces. Por lo tanto, cerciórese de conectar altavoces pasivos a estos terminales.*

關於控制導線
- *打開機器電源時，功率天線的控制線（藍色／白色條紋）能能供給12 V 直流電。*
- *本機不能使用沒有繼電箱的功率天線。*

保持記憶的導線連接法

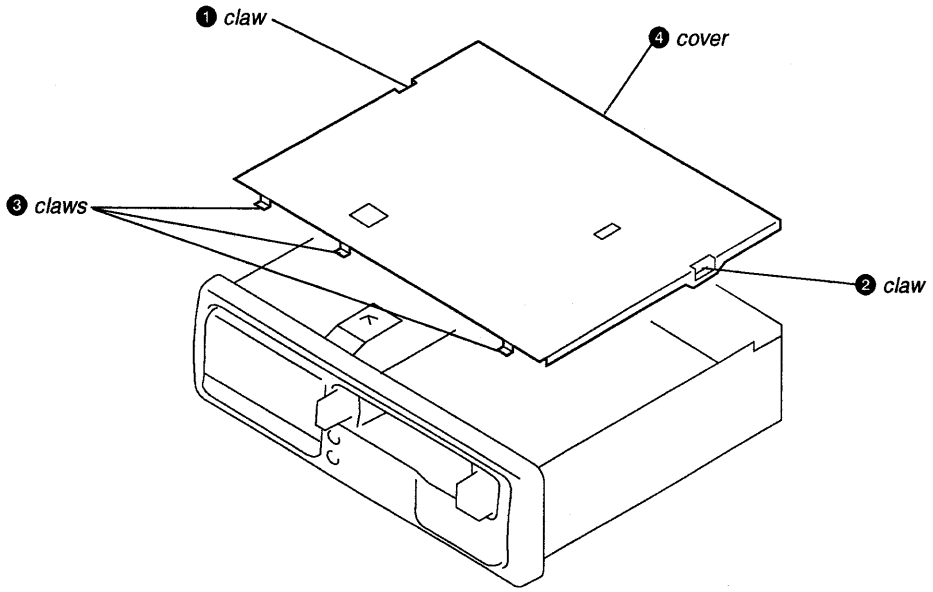
當連接有黃色電源輸入電線時，即使汽車發動機點火鎖匙處在電源切斷之後，電源仍將繼續供給電流給記憶用電線，以維持記憶着的數據。

連接揚聲器時的注意事項
- *連接揚聲器電線以前，請先切斷本機電源。*
- *揚聲器請使用阻抗4～8Ω之間，並具有適合本機使用的電容量者，否則會損壞揚聲器。*
- *不可把揚聲器端子連接到汽車底盤，也不可把左揚聲器和右揚聲器相連接。*
- *揚聲器不可平行的連接。*
- *不可連接有源揚聲器（內裝有效大器者）至本機的揚聲器端子，否則會損壞揚聲器。僅供連接無源揚聲器。*

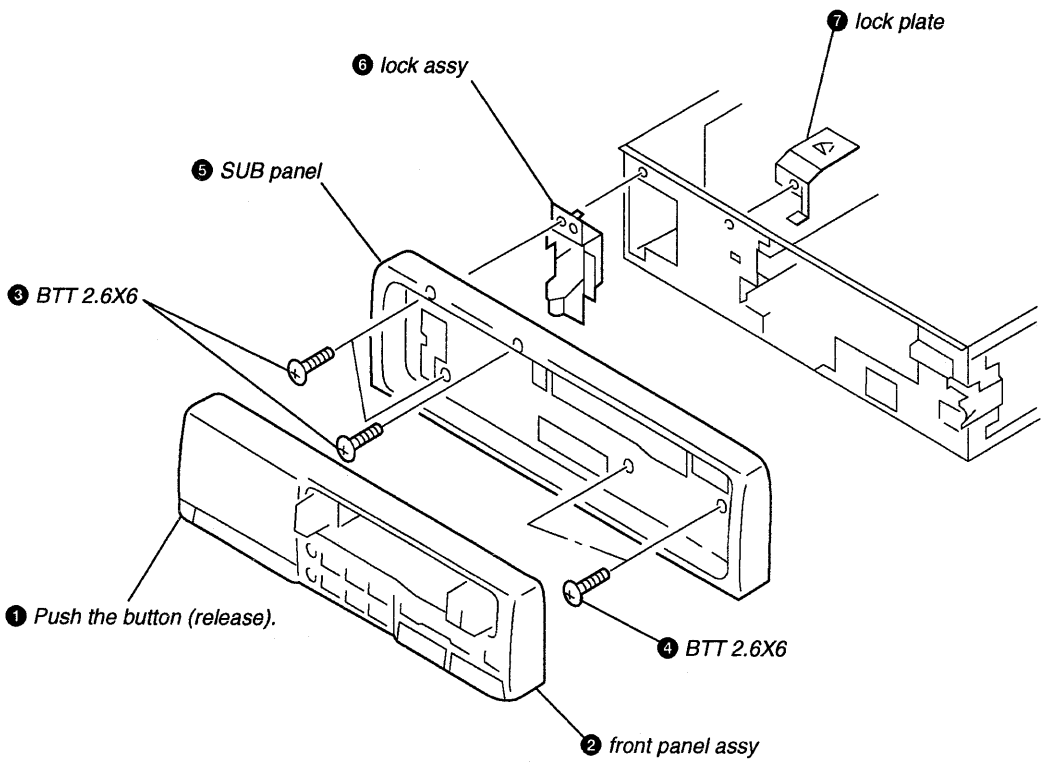
SECTION 2
DISASSEMBLY

Note : Follow the disassembly procedure in the numerical order given.

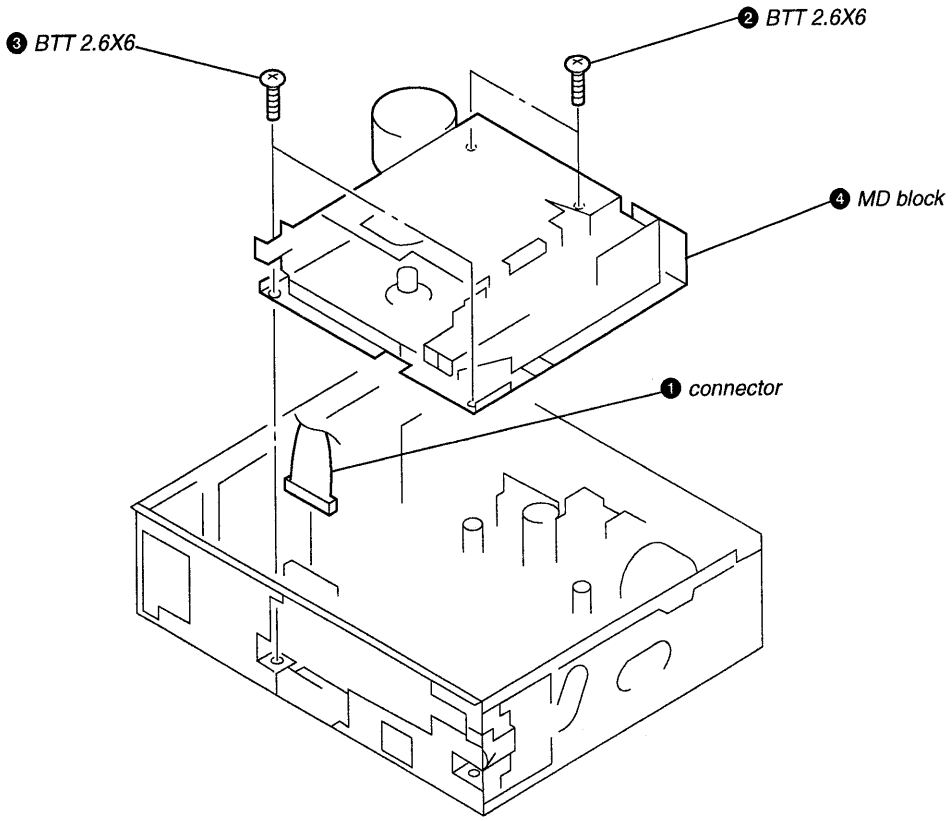
2-1. COVER



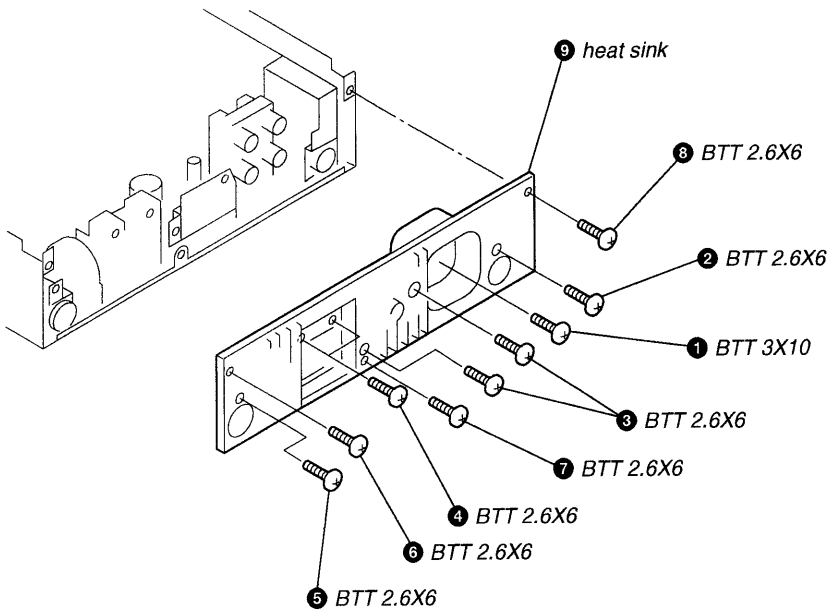
2-2. LOCK ASSY



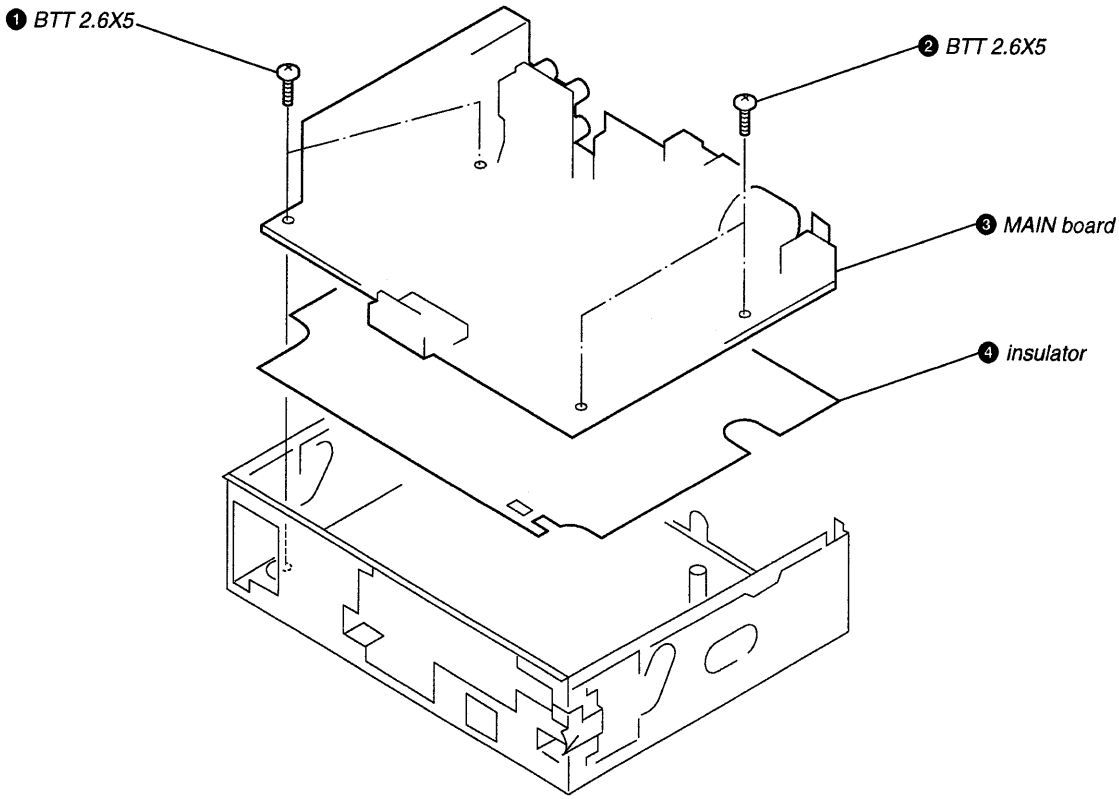
2-3. MD BLOCK



2-4. HEAT SINK



2-5. MAIN BOARD



SECTION 3
MECHANICAL ADJUSTMENTS

PRECAUTION

1. Wipe the following components with an absorbent cotton cloth moistened with alcohol before adjustment :
   PB head　　Pinch roller
   Idler　　Rubber belt
   Capstan
2. Demagnetize the PB head using a head demagnetizer.
3. Be careful not to use a magnetized screwdriver.
4. After the adjustment is completed, lock the adjustment parts using screws.
5. Unless otherwise specified, make adjustments at the specified voltage (14.4 V).

Torque Measurement

Mode	Torque Meter	Meter Reading
FWD	CQ-102C	25 – 55 g•cm (0.35 – 0.76 oz•inch)
FWD Back Tension		1.5 – 4 g•cm (0.02 – 0.06 oz•inch)
REV	CQ-102RC	25 – 55 g•cm (0.35 – 0.76 oz•inch)
REV Back Tension		1.5 – 4 g•cm (0.02 – 0.06 oz•inch)
FF, REW	CQ-201B	50 – 150 g•cm (0.69 – 2.08 oz•inch)

SECTION 4
ELECTRICAL ADJUSTMENTS

DECK SECTION **0 dB = 0.775 V**

1. The adjustments should be performed in the order given in this service manual.
2. The adjustments should be performed for both L-CH and R-CH.

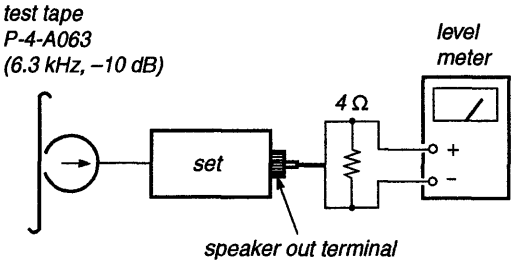
Test Tape

Type	Signal	Used for
P-4-A063	6.3 kHz, –10 dB	head azimuth adjustment
WS-48A	3 kHz, 0 dB	tape speed adjustment

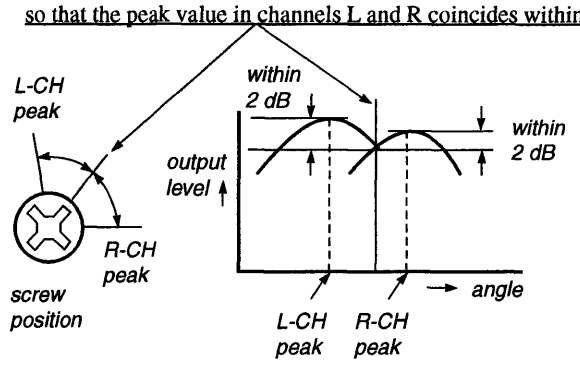
PB Head Azimuth Adjustment

Procedure :

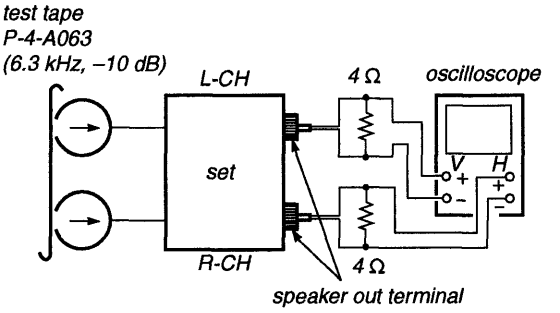
1. Put the set into the FWD PB mode.

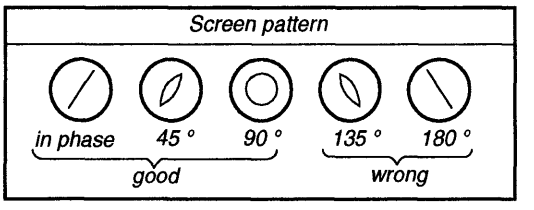


2. Turn the screw and check the output peak value. Adjust the screw so that the peak value in channels L and R coincides within 2 dB.



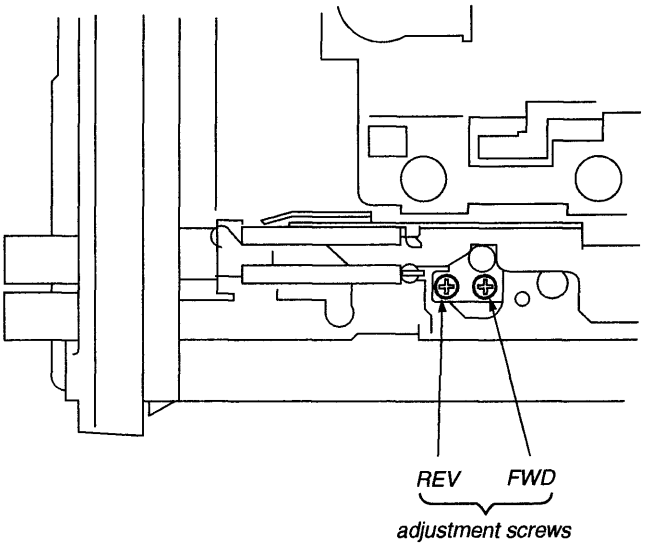
3. Check the phase in the FWD PB mode.





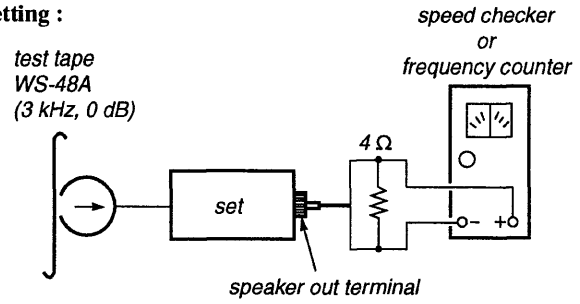
4. Repeat the above adjustment for the REV PB mode.
5. Check that output level difference between FWD PB mode and REV PB mode is within 4 dB.

Adjustment Location :



Tape Speed Adjustment

Setting :



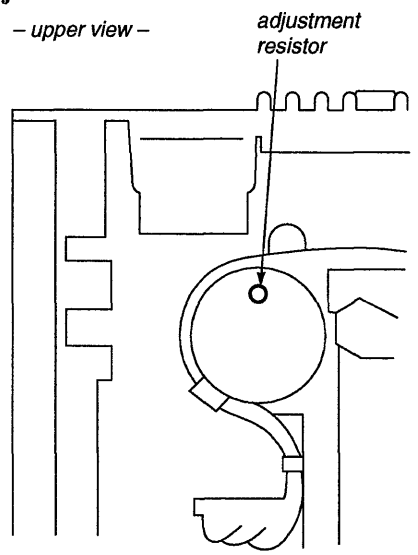
Procedure :

1. Put the set into the FWD PB mode.
2. Adjust adjustment resistor for inside capstan motor so that the reading on the speed checker or frequency counter becomes in specification.

Specification : Constant speed

Speed checker	Frequency counter
– 1.5 to + 0.5 %	2,955 to 3,015 Hz

Adjustment Location :



TUNER SECTION | 0 dB = 1 µV

Cautions during repair

When the tuner assy is defective, replace it by a new one because its internal block is difficult to repair.

TEST MODE

This set have the test mode function. In the test mode, FM Auto Stop Level and AM Auto Stop Level adjustments can be performed easier than it in ordinary procedure.

<Set the Test Mode>

1. Set the "OFF" mode.
2. Push the preset [1] button.
3. Press the [OFF] button while pressing the [FM/AM] button. (Then the display indicates all lights, the test mode is set.)

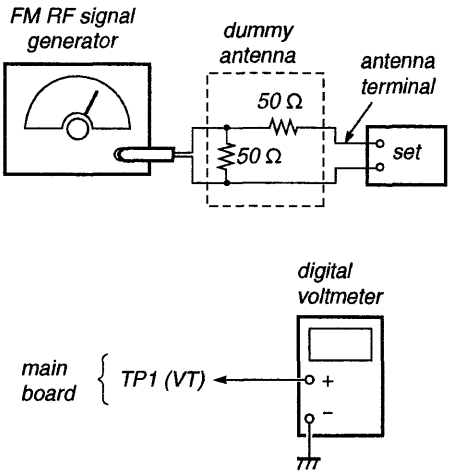
<Release the Test mode>

1. Push the [OFF] button.

FM VT Adjustment

Setting :

FM/AM button : FMI
FREQUENCY SELECT switch : FM 50k (E model)



Procedure :

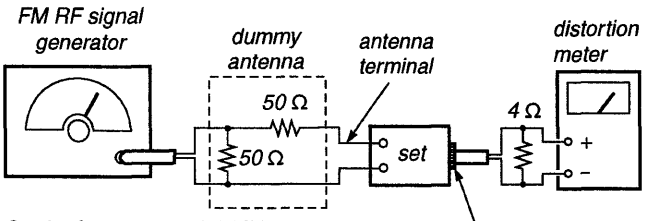
1. Tune the set to 108 MHz.
2. Adjust L104 so that the reading on the digital voltmeter becomes 7.2 ± 0.05 V.

Adjustment Location : See page 16.

FM DET Adjustment

Setting :

FM/AM button : FMI
FREQUENCY SELECT switch : FM 50k (E model)



Carrier frequency : 98.0 MHz
Output level : 60 dB (1 mV)
Mode : mono
Modulation : 1 kHz, 75 kHz deviation (100 %)

Procedure :

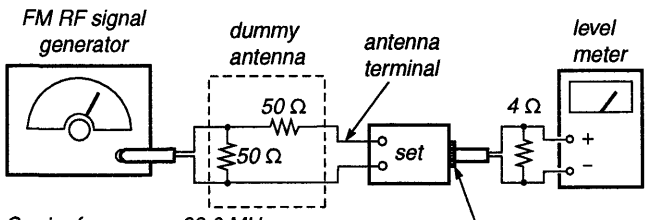
1. Tune the set to 98.0 MHz.
2. Adjust L111 so that the reading on the distortion meter becomes to minimum.

Adjustment Location : See page 16.

FM MIX Adjustment

Setting :

FM/AM button : FMI
FREQUENCY SELECT switch : FM 50k (E model)



Carrier frequency : 98.0 MHz
Output level : 10 dB (3.2 μV)
Mode : mono
Modulation : 1 kHz, 75 kHz deviation (100 %)

Procedure:

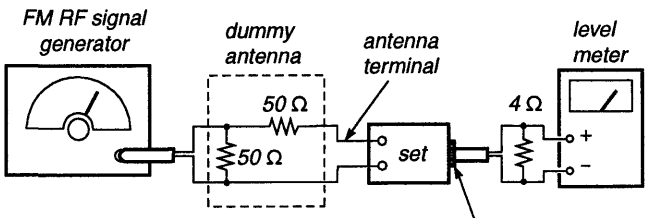
1. Tune the set to 98.0 MHz.
2. Adjust L103 so that the reading on the level meter becomes to maximum.

Adjustment Location : See page 16.

FM Tracking Adjustment

Setting :

FM/AM button : FMI
FREQUENCY SELECT switch : FM 50k (E model)



Carrier frequency : 108 MHz, 87.5 MHz
Output level : 10 dB (3.2 μV)
Mode : mono
Modulation : 1 kHz, 75 kHz deviation (100 %)

Procedure :

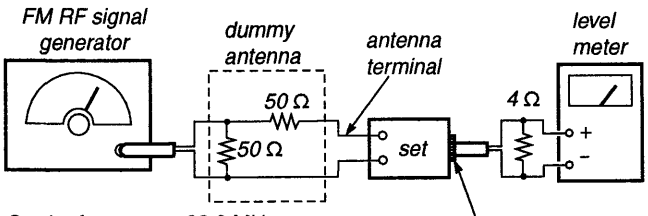
1. Tune the set to 108 MHz. (FM RF signal generator : Carrier frequency 108 MHz)
2. Adjust L102 so that the reading on the level meter becomes to maximum.
3. Tune the set to 87.5 MHz. (FM RF signal generator : Carrier frequency 87.5 MHz)
4. Adjust L100 so that the reading on the level meter becomes to maximum.

Adjustment Location : See page 16.

FM SEP Adjustment

Setting :

FM/AM button : FMI
FREQUENCY SELECT switch : FM 50k (E model)



Carrier frequency : 98.0 MHz
Output level : 60 dB (1 mV)
Mode : mono (R-CH)
Modulation : 1 kHz, 67.5 kHz deviation (90 %)
19 kHz, 7.5 kHz deviation (10 %)

Procedure :

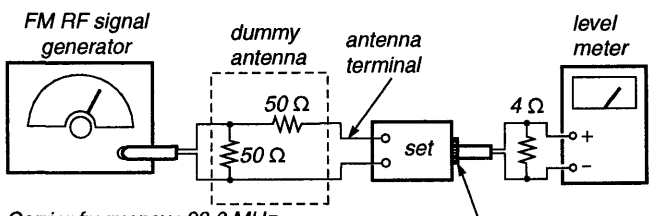
1. Tune the set to 98.0 MHz.
2. Adjust R134 so that the reading on the level meter becomes to minimum.

Adjustment Location : See page 16.

FM SNC Adjustment

Setting :

FM/AM button : FMI
FREQUENCY SELECT switch : FM 50k (E model)



Carrier frequency : 98.0 MHz
Output level : 40 dB (100 μV)
Mode : mono (L-CH)
Modulation : 1 kHz, 67.5 kHz deviation (90 %)
19 kHz, 7.5 kHz deviation (10 %)

Procedure :

1. Tune the set to 98.0 MHz.
2. The then output level is supposing that (A) dB.
3. Change the FM RF signal generator mode to R-CH.
4. Adjust R138 so that the output level is (A) – 12 dB.

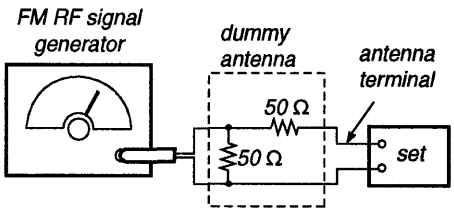
Adjustment Location : See page 16.

FM Auto Stop Level Adjustment

Note : Be sure to perform this adjustment before "AM Auto Stop Level Adjustment".

Setting :

FM/AM button : FMI
FREQUENCY SELECT switch : FM 50k (E model)

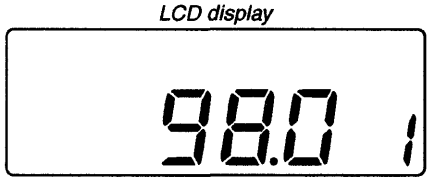


Carrier frequency: 98.0 MHz
Output level : 22 dB (12.6 μV)
Mode : mono
Modulation : 1 kHz, 75 kHz deviation (100 %)

Procedure :

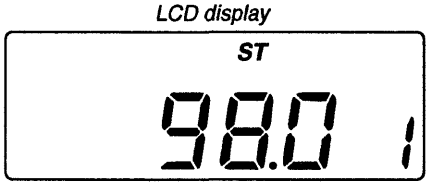
1. Set to the test mode. (See page 12.)
2. Push the [FM/AM] button and set to FMI.

LCD display



3. Adjust R131 like to appear the ST indicator of LCD display.

LCD display

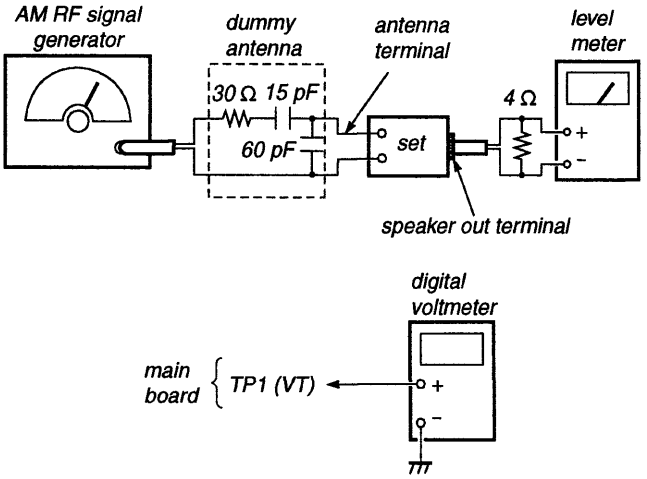


Adjustment Location : See page 16.

AM VT Adjustment

Setting :

FM/AM button : AM
FREQUENCY SELECT switch : AM 9k (E model)



Procedure :

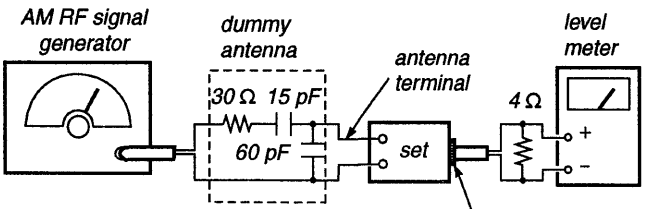
1. Tune the set to 531 kHz.
2. Adjust L108 so that the reading on the digital voltmeter becomes 1.2 ± 0.05 V.

Adjustment Location : See page 16.

AM IFT Adjustment

Setting :

FM/AM button : AM
FREQUENCY SELECT switch : AM 9k (E model)



Carrier frequency: 999 kHz
Output level : 20 dB (10 μV)
Modulation : 400 Hz, 22.5 kHz deviation (30 %)

Procedure :

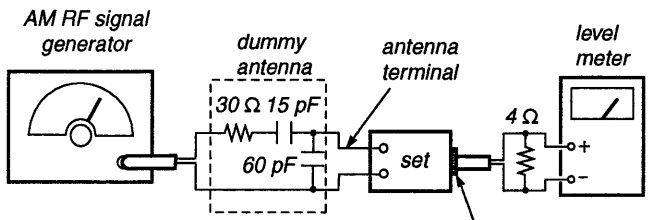
1. Tune the set to 999 kHz.
2. Adjust L110 so that the reading on the level meter becomes to maximum.

Adjustment Location : See page 16.

AM Tracking Adjustment

Setting :

FM/AM button : AM
FREQUENCY SELECT switch : AM 9k (E model)



Carrier frequency : 612 kHz, 1,404 kHz
Output level : 20 dB (10 µV)
Modulation : 400 Hz, 22.5 kHz deviation (30 %)

Procedure :

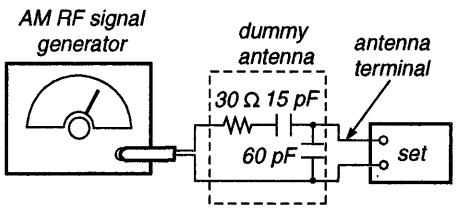
1. Tune the set to 612 kHz. (AM RF signal generator : Carrier frequency 612 kHz)
2. Adjust L107 so that the reading on the level meter becomes to maximum.
3. Tune the set to 1,404 kHz. (AM RF signal generator : Carrier frequency 1,404 kHz)
4. Adjust C119 so that the reading on the level meter becomes to maximum.

Adjustment Location : See page 16.

AM Auto Stop Level Adjustment

Setting :

FM/AM button : AM
FREQUENCY SELECT switch : AM 9k (E model)

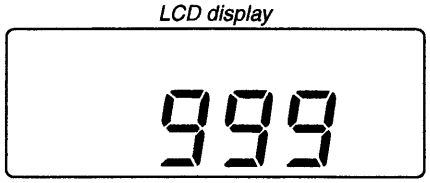


Carrier frequency: 999 kHz
Output level : 33 dB (44.7 µV)
Modulation : 400 Hz, 22.5 kHz deviation (30 %)

Procedure :

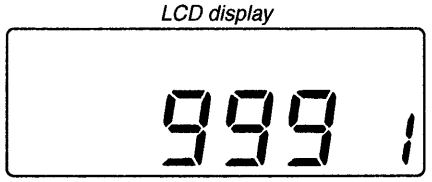
1. Set to the test mode. (See page 12.)
2. Push the [FM/AM] button and set to AM.

LCD display



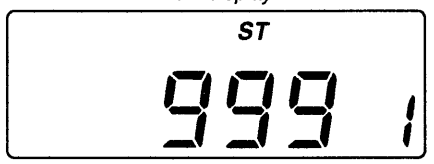
3. Push the [SEL] button and set to MODE1.

LCD display



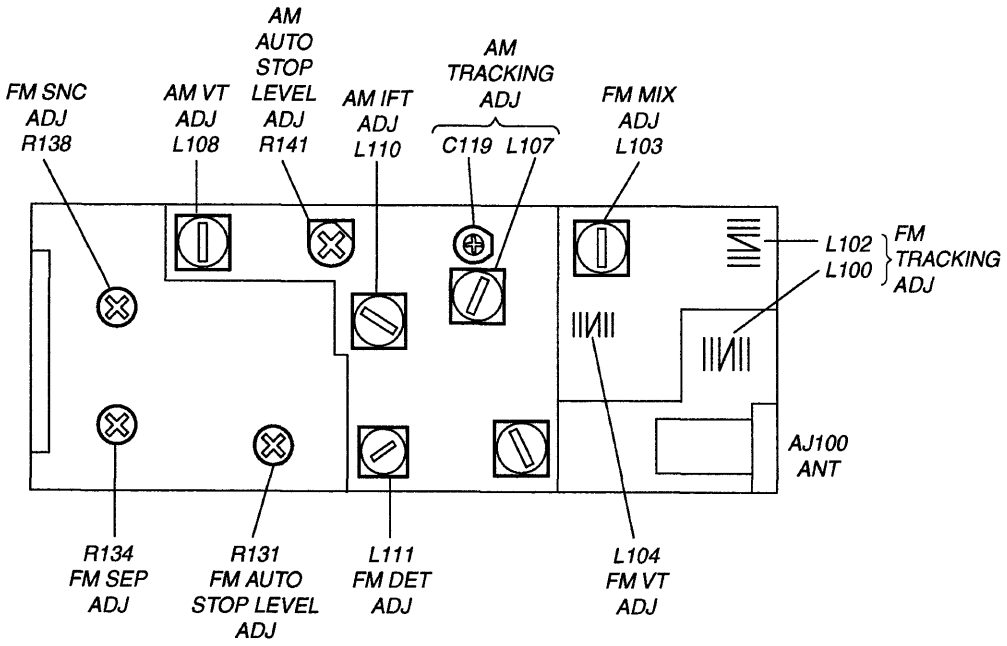
4. Adjust R141 like to appear the ST indicator of LCD display.

LCD display



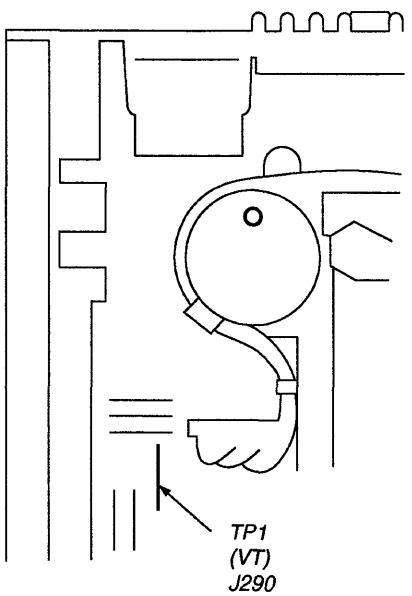
Adjustment Location : See page 16.

Adjustment Location : ET201 (tuner assy) – component side –



Measurement Point : main board (component side)

– set upper view –



SECTION 5
DIAGRAMS

5-1. IC PIN DESCRIPTION

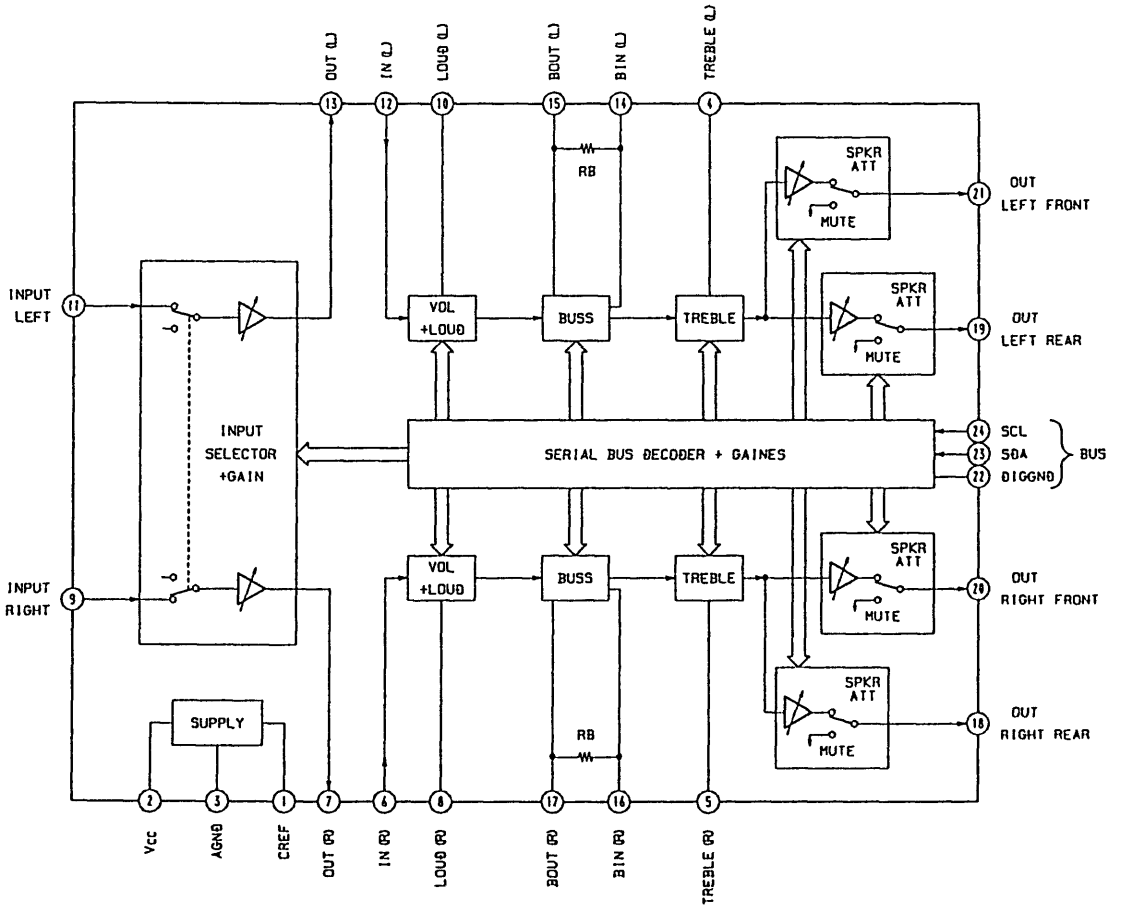
• IC701 LC72356-9241 (System Controller)

Pin No.	Pin Name	I/O	Pin Description
1	XIN	I	4.5 MHz crystal oscillator input pin
2	TEST2	I	LSI test pin (Fixed at "L" in this set.)
3	SEEK	O	SEEK control output pin ("L" : NORMAL, "H" : SEEK)
4	FM/$\overline{\text{AM}}$	O	BAND select output pin ("L" : AM, "H" : FM)
5	$\overline{\text{LW}}$	O	LW band select output pin (Not used in this set.)
6	LOCAL	O	LOCAL control output pin ("L" : DX, "H" : LOCAL)
7	—	O	Not used. (Connect to GND.)
8	VOL SO	O	Serial data output pin for volume.
9	VOL CK	O	Serial clock output pin for volume.
10	CDC EN	O	CD select button with/without setting pin
11	CDC SI	I	Serial data input pin for SONY BUS.
12	CDC SO	O	Serial data output pin for SONY BUS.
13	CDC CLK	O	Serial clock output pin for SONY BUS.
14	—	O	Not used. (Connect to GND.)
15	MUTE	O	Mute output pin
16	$\overline{\text{AMP MUTE}}$	O	Audio control output pin (Mute)
17	$\overline{\text{BUS RST}}$	O	Bus reset output pin for SONY BUS. ("L" : RESET)
18	$\overline{\text{BUS ON}}$	O	Bus control output pin for SONY BUS. ("L" : ON)
19-25	—	O	Not used. (Open)
26	A.STBY	O	Audio control output pin
27	FOR/$\overline{\text{REV}}$	I	Forward/reverse detection input pin ("L" : REV, "H" : FOR)
28	$\overline{\text{WIND}}$	I	Tape Fast Forward/Rewind detection input pin ("H" : NORMAL, "L" : WIND)
29	RA/TA	I	Radio/tape mode detection input pin ("H" : RADIO, "L" : TAPE)
30	$\overline{\text{TEST}}$	I	Test mode wake-up input pin
31	VDD	—	Power supply pin (5 V ± 5 %)
32	$\overline{\text{ACC CHK}}$	I	Accessory detection input pin ("L" : ACC ON)
33	MOTOR	O	Motor control output pin
34	POWER ON	O	Power control output pin
35	LAMP ON	O	Illumination lamp control output pin
36-43	—	O	Not used. (Open)
44	BEEP	O	Caution alarm output pin
45	LCD CE	O	Chip enable output pin for LCD driver.
46	LCD CLK	O	Serial clock output pin for LCD driver.
47	LCD SO	O	Serial data output pin for LCD driver.
48	$\overline{\text{LCD INH}}$	O	Display light off control output pin for LCD driver. (Normally, "L" : All light off)
49	$\overline{\text{PANEL}}$	I	Input pin for detecting mounting of front panel. ("L" : ON, "H" : OFF)
50	OIRT EN	I	Setting input pin for East European model. (Fixed at "L" : AEP, UK Model, "H" : E Model)
51	LW EN	I	LW band with/without select pin (Fixed at "L" in this set.)
52	SDK EN	I	Traffic information function select pin (Fixed at "L" : AEP, UK Model, "H" : E Model)
53	10k EN	I	Frequency select switch select pin (E Model). (Fixed at "L" : AEP, UK Model)
54	P.SEL	I	Illumination light ON/OFF select pin at Power off. (Fixed at "L" in this set.)
55	BAT CHK	I	Battery detection input pin ("H" : Battery ON)
56	$\overline{\text{RESET}}$	I	System reset input pin
57	—	O	Not used. (Open)
58	$\overline{\text{MONO}}$	—	Not used. (Open)
59, 60	SEL B, SEL A	O	Audio source select output pin
61-63	ADC2-ADC0	I	Key input pin

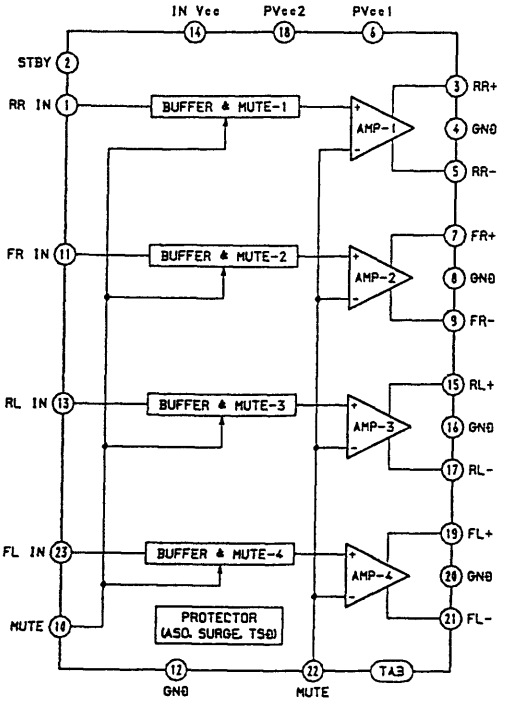
Pin No.	Pin Name	I/O	Pin Description
64	—	O	Not used. (Connect to VDD.)
65	DK	I	DK signal input pin (Fixed at "H" in this set.)
66	SK	I	SK signal input pin (Fixed at "H" in this set.)
67	$\overline{\text{HOLD}}$	I	HOLD pin (PLL and CLOCK STOP control)
68	$\overline{\text{SNS}}$	I	Power fail detection pin (Connect to VDD.)
69	SD/ST	I	SD/stereo station detect input pin
70	IF	I	IF count input pin (FM = 10.7 MHz, AM = 450 kHz)
71	EO3	O	2nd PLL error output pin (Not used in this set.)
72	SUBPD	O	Sub error output pin (For High speed lock up) (Not used in this set.)
73	VDD	—	Power supply pin (5 V ± 5 %)
74	AM IN	I	AM VCO input pin
75	FM IN	I	FM VCO input pin
76	GND	—	GND
77	EO2	O	PLL error output pin (Not used in this set.)
78	EO1	O	PLL error output pin
79	TEST1	I	LSI test pin (Fixed at "L" in this set.)
80	XOUT	O	4.5 MHz crystal oscillator output pin

• IC Block Diagrams

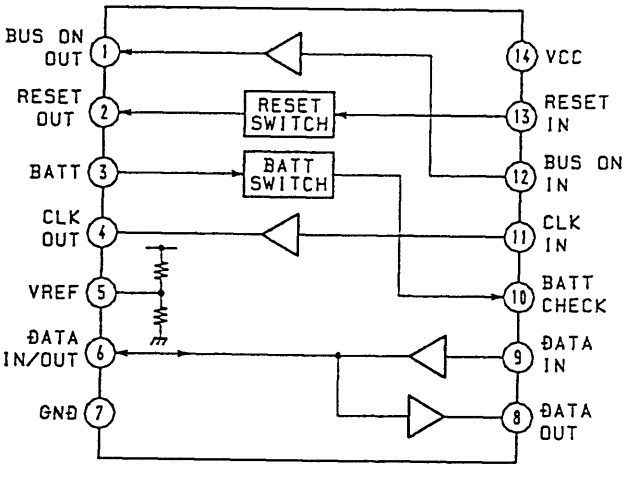
IC401 TDA7314S



IC501 HA13153



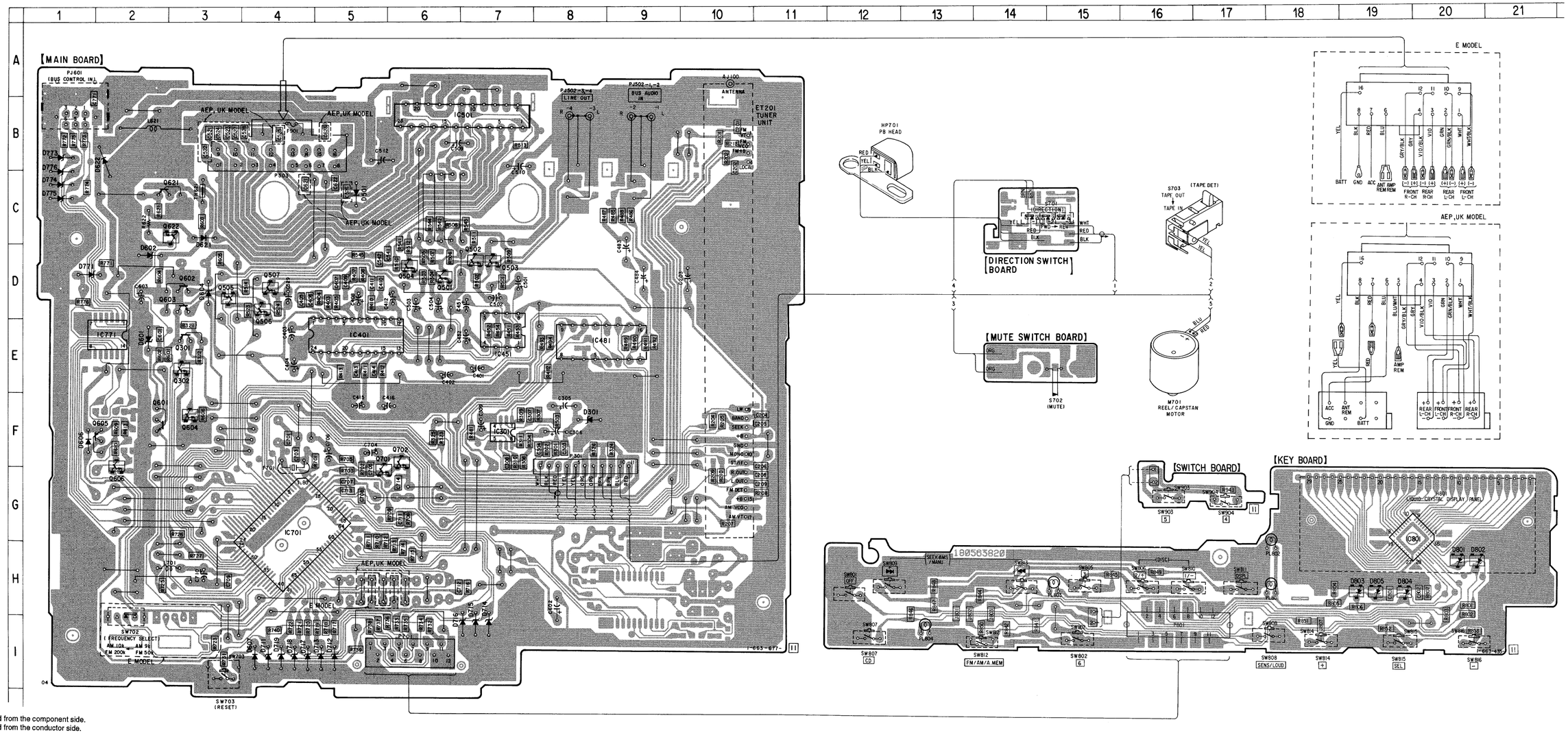
IC771 MM1175XFF



5-2. PRINTED WIRING BOARDS

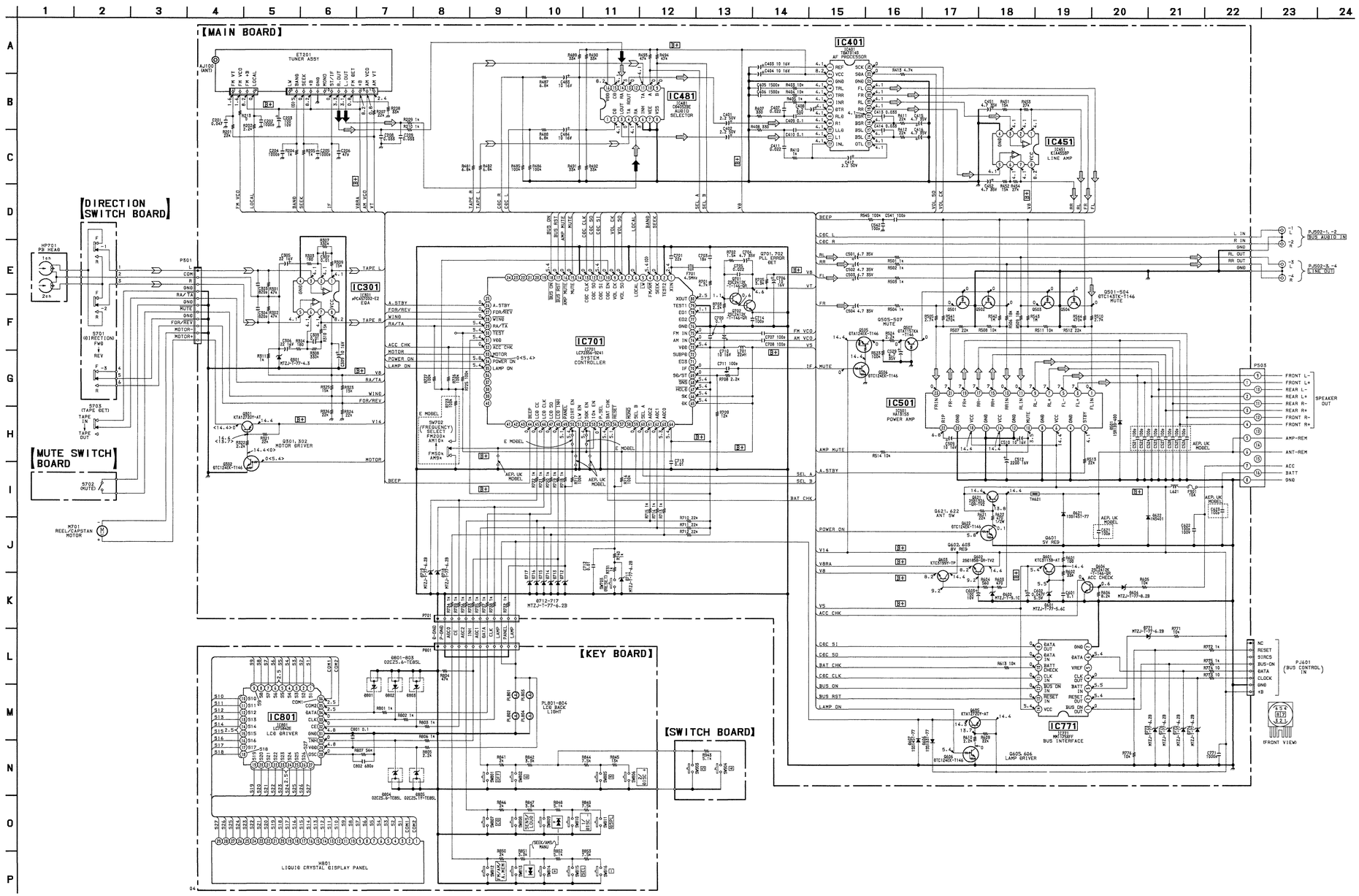
• **Semiconductor Location**

Ref. No.	Location
D301	F-8
D501	C-5
D601	E-2
D602	D-2
D604	D-3
D606	F-1
D607	I-4
D621	C-3
D622	B-2
D711	I-4
D712	I-5
D713	I-5
D714	I-7
D715	I-7
D716	I-6
D717	I-4
D718	I-4
D719	I-4
D771	D-1
D773	B-1
D774	C-1
D775	C-1
D776	B-1
D801	H-20
D802	H-20
D803	H-19
D804	H-19
D805	H-19
IC301	F-7
IC401	E-5
IC451	E-7
IC481	E-8
IC501	B-6
IC701	G-4
IC771	E-2
IC801	G-19
Q301	E-3
Q302	E-3
Q501	D-6
Q502	D-7
Q503	D-7
Q504	D-6
Q505	D-3
Q506	D-4
Q507	D-4
Q601	F-2
Q602	D-3
Q603	D-3
Q604	F-3
Q605	F-2
Q606	G-2
Q621	C-3
Q622	C-3
Q701	F-5
Q702	F-6



Note :
- ○— : parts extracted from the component side.
- —— : parts extracted from the conductor side.

5-3. SCHEMATIC DIAGRAM • Refer to page 19 for IC Block Diagrams.



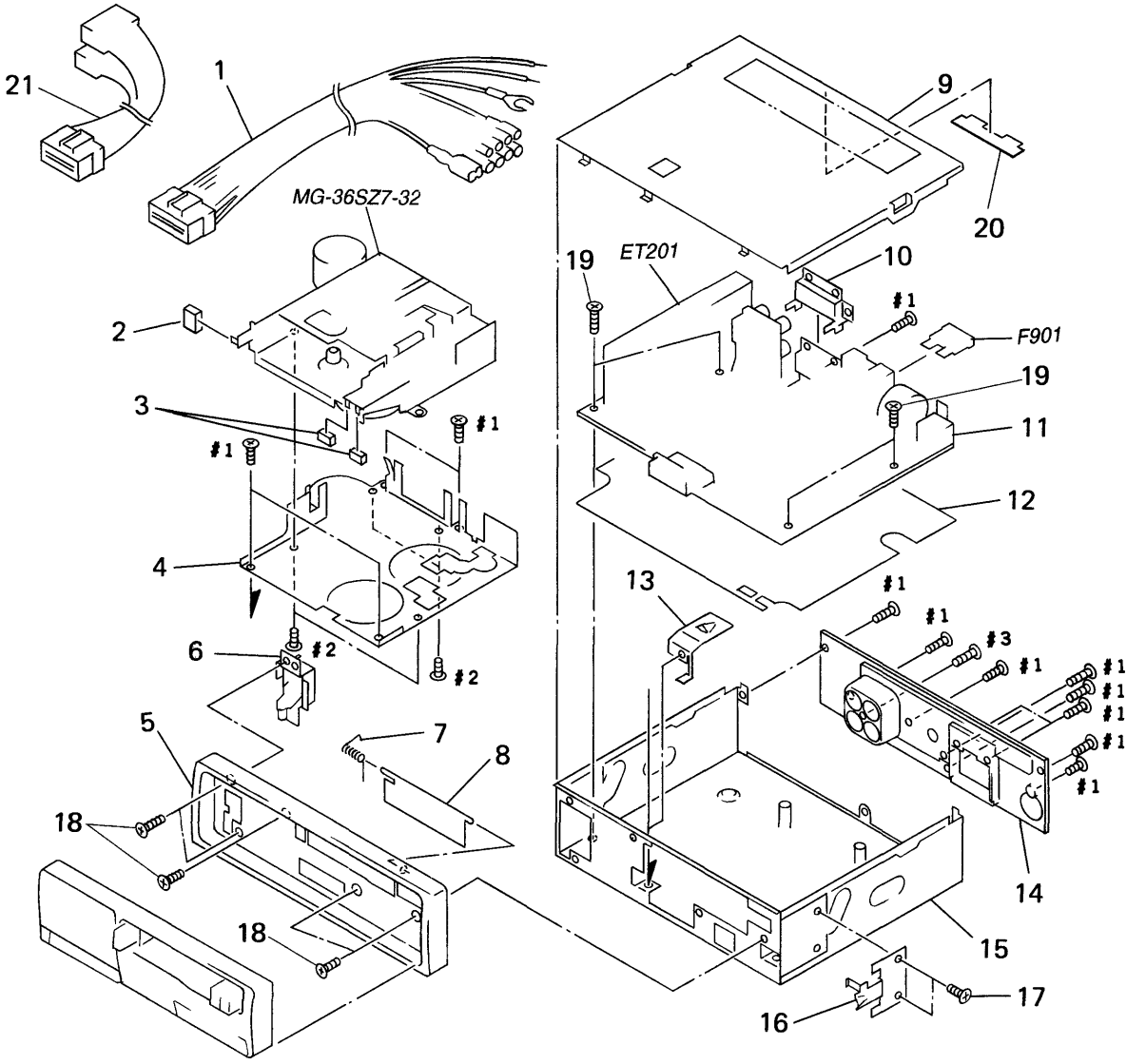
Note :
- All capacitors are in µF unless otherwise noted. pF : µµF. 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- B+ : B+ Line.
- Power voltage is dc 14.4 V and fed with regulated dc power supply from BATT and ACC terminals.
- Voltage is dc with respect to ground under no-signal (detuned) conditions.
- no mark : FM
  ( ) : AM
  < > : PB
- Voltages are taken with a VOM (Input impedance 10MΩ). Voltage variations may be noted due to normal production tolerance.
- Signal path.
  ⇨ : FM
  ➡ : AM
  ⇨ : PB

SECTION 6
EXPLODED VIEWS

SEE ADDITIONAL INFORMATION

NOTE:
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example :
  KNOB, BALANCE (WHITE) ... (RED)
  ↑ Parts Color ↑ Cabinet's Color
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.

6-1. CHASSIS SECTION

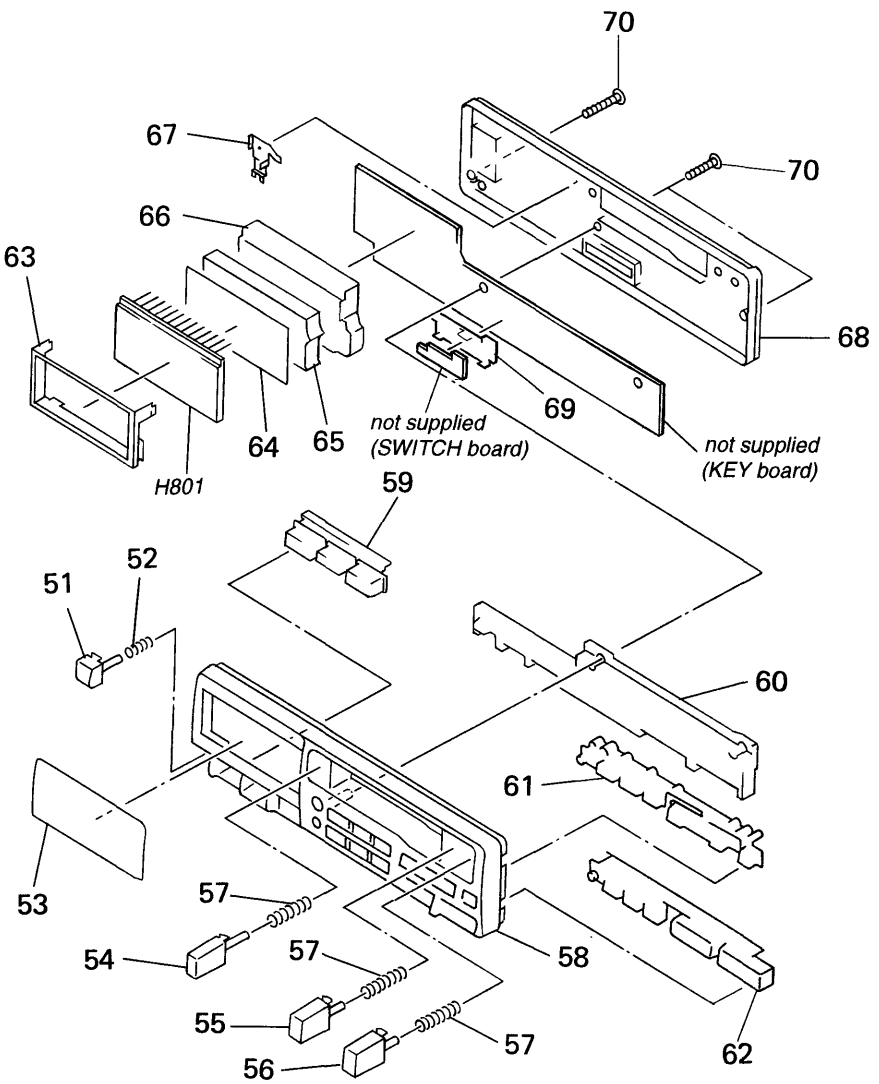


Ref. No.	Part No.	Description	Remark
1	1-776-207-31	CORD (WITH CONNECTOR) (POWER)	
2	3-937-528-01	COVER (EJECT)	
3	3-937-529-01	COVER (FF/REW)	
* 4	3-937-531-01	BRACKET (MD)	
5	3-937-525-01	PANEL, SUB	
6	X-3372-433-1	LOCK ASSY	
7	3-915-720-01	SPRING (C DOOR), TORSION	
8	3-937-526-01	DOOR, CASSETTE	
9	3-937-523-01	COVER	
* 10	3-937-533-01	BRACKET (IC)	
* 11	A-3294-168-A	MAIN BOARD, COMPLETE (AEP, UK)	
* 11	A-3309-500-A	MAIN BOARD, COMPLETE (E)	
* 12	3-937-532-01	INSULATOR	

Ref. No.	Part No.	Description	Remark
13	3-916-055-01	PLATE, LOCK	
* 14	3-937-530-01	HEAT SINK	
* 15	X-3372-423-1	CHASSIS ASSY	
16	3-916-056-01	PLATE (R), LOCK	
17	3-344-561-21	SCREW (M4X4)	
18	3-916-975-11	SCREW (2.6X6) (BZN), +BTT	
19	3-916-976-01	SCREW (2.6X5) (CZN), +BTT	
* 20	3-939-569-01	SHEET (VIBRATION PROOF)	
21	1-777-898-11	CORD (WITH CONNECTOR) (POWER) (AEP, UK)	
ET201	A-3291-810-A	TUNER ASSY (E)	
ET201	A-3294-179-A	TUNER ASSY (AEP, UK)	
F901	1-533-330-11	FUSE (BLADE TYPE) (AUTO FUSE) 10A	

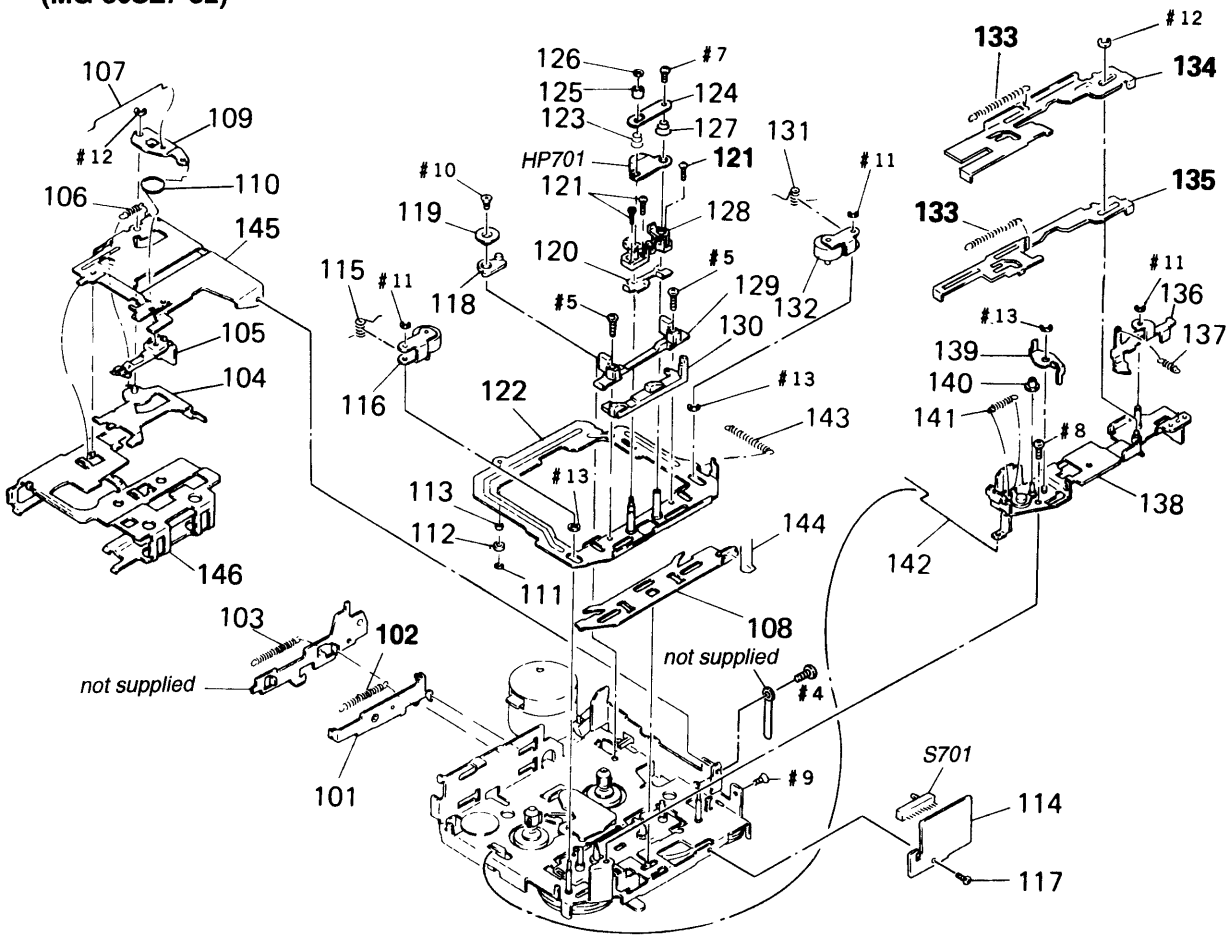
6-2. FRONT PANEL SECTION

SEE ADDITIONAL INFORMATION



Ref. No.	Part No.	Description	Remark
51	3-937-551-01	BUTTON (RELEASE)	
52	3-937-553-01	SPRING (RELEASE)	
53	3-007-661-01	PLATE, INDICATION	
54	3-937-550-01	BUTTON (EJECT)	
55	3-937-549-01	BUTTON (REW)	
56	3-937-548-01	BUTTON (FF)	
57	3-937-632-01	SPRING (EJECT)	
58	3-939-883-01	PANEL, FRONT	
59	3-937-547-01	BUTTON (SEL)	
* 60	3-937-556-01	PLATE, LIGHT GUIDE	
61	3-939-875-01	BUTTON (1-3)	
62	3-939-876-01	BUTTON (FM/AM)	
* 63	3-937-557-01	PLATE (LCD), GROUND	
* 64	3-937-560-01	SHEET (REFLECTOR)	
* 65	3-937-559-01	PLATE (LCD), LIGHT GUIDE	
66	3-937-558-01	HOLDER (LCD)	
67	3-937-555-01	PLATE (FP), GROUND	
68	3-939-882-01	PANEL, FRONT BACK	
* 69	3-009-000-01	HOLDER (SWITCH PC BOARD)	
70	3-916-981-11	SCREW (2X8) (BZN), +BTT	
H801	1-801-456-11	DISPLAY PANEL, LIQUID CRYSTAL	

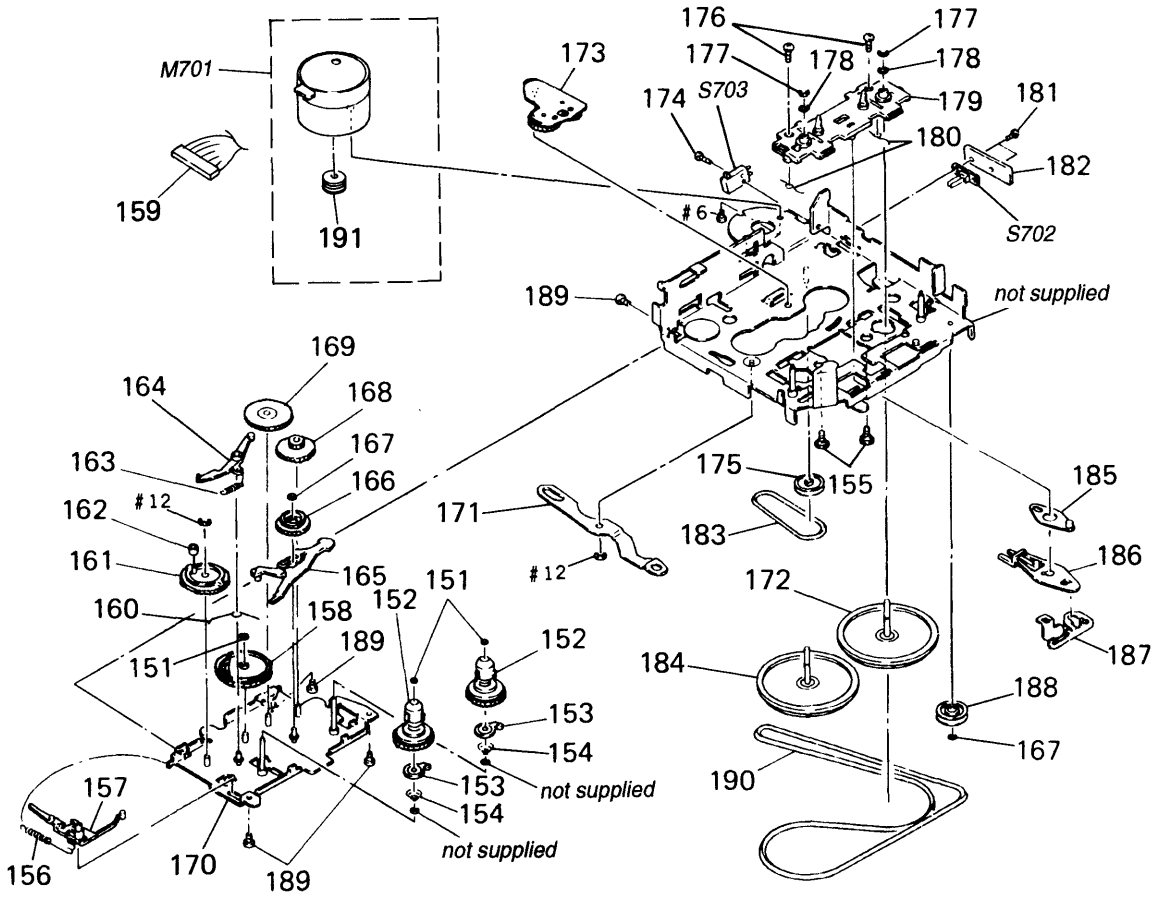
6-3. MECHANISM SECTION (1)
(MG-36SZ7-32)



Ref. No.	Part No.	Description	Remark
101	3-938-660-01	LEVER, EJECT	
102	3-392-950-01	SPRING	
103	3-392-951-01	SPRING	
* 104	3-392-921-01	LOCK ASSY, EJECT CAM	
105	3-392-972-01	HOOKER, TAPE	
106	3-392-953-01	SPRING	
107	3-392-969-01	LINK, RETURN	
* 108	3-392-919-01	ARM ASSY, F,R SELECTION	
* 109	3-392-932-01	PLATE, CENTER	
110	3-392-961-01	SPRING (B)	
111	3-570-615-00	POLY-WASHER (DIA.1.2)	
112	3-392-945-01	ROLLER (A), H.P	
113	3-392-942-01	ROLLER (B), H.P	
114	3-392-970-01	CHASSIS, SWITCH (DIRECTION SWITCH BOARD)	
115	3-392-958-01	SPRING (R)	
116	3-375-378-01	ARM (R) ASSY, PINCH	
* 117	4-908-792-11	SCREW (B2)	
118	3-372-244-01	ARM (N), MUTE	
* 119	3-397-427-01	COLLAR, MUTE ARM	
120	3-377-908-01	SHIM (X), ADJUSTOR	
121	3-375-379-01	SCREW, AZIMUTH	
* 122	3-392-975-05	PLATE ASSY (S), HEAD	
123	3-392-956-01	SPRING (A)	
* 124	3-392-930-01	RETAINER, SPRING	

Ref. No.	Part No.	Description	Remark
125	3-392-943-01	ROLLER, FF	
126	3-676-387-00	POLY-SLIDER (DIA.1.6)	
127	3-392-955-01	SPRING (A)	
* 128	3-379-142-01	ARM (B), ADJUSTOR	
129	3-392-984-02	GUIDE, TAPE	
130	3-377-909-02	LINK (X), ADJUSTOR	
131	3-392-957-01	SPRING (F)	
132	3-375-377-01	ARM (F) ASSY, PINCH	
133	3-392-948-01	SPRING	
134	3-938-658-01	LEVER, FF	
135	3-938-659-01	LEVER, REW	
* 136	3-392-935-01	ARM, LOCK	
137	3-392-917-01	SPRING	
* 138	3-372-242-01	BRACKET ASSY (D), LEVER	
* 139	3-392-933-01	LEVER (B), CHANGE	
140	3-392-994-01	ROLLER, PROGRAM	
141	3-392-954-01	SPRING	
142	3-372-243-01	LINK (B), SELECTOR	
143	3-392-952-01	SPRING	
144	3-392-962-01	SPRING	
145	3-375-383-01	HANGER (X), CASSETTE	
146	3-375-384-01	HOLDER (X), CASSETTE	
HP701	1-543-717-11	HEAD, MAGNETIC (PLAYBACK)	
S701	1-692-502-11	SWITCH, SLIDE (DIRECTION)	

6-4. MECHANISM SECTION (2)
(MG-36SZ7-32)



Ref. No.	Part No.	Description	Remark
151	3-676-387-00	POLY-SLIDER (DIA.1.6)	
152	3-376-196-01	SPINDLE ASSY (S), REEL	
153	3-375-380-01	CAM ASSY, DETECTION	
154	3-370-619-01	SPRING, BACK TENSION	
155	3-392-918-01	SCREW, EJECT HOOK	
156	3-392-959-01	SPRING	
157	3-392-985-02	RATCHET	
158	3-392-990-01	GEAR, DETECTION	
159	3-008-116-01	CORD ASSY, CONNECTOR	
160	3-392-960-01	SPRING	
161	3-392-987-01	GEAR, SELECTOR	
162	3-392-944-01	COLLAR (SELECTOR GEAR)	
163	3-375-131-01	SPRING, GEAR LOCK ARM	
164	3-392-989-02	ARM, GEAR LOCK	
165	3-392-986-01	ARM, SENSOR	
166	3-392-915-01	GEAR, IDLE	
167	3-570-615-00	POLY-WASHER (DIA.1.2)	
168	3-392-936-01	GEAR (A)	
169	3-392-937-01	GEAR (B)	
* 170	3-392-976-01	BASE ASSY, REEL	
* 171	3-392-979-01	LEVER, REVERSE	
172	3-392-926-02	FLYWHEEL ASSY (BF)	

Ref. No.	Part No.	Description	Remark
173	3-392-916-01	ARM ASSY, TU GEAR	
174	3-318-203-11	SCREW (B1.7X6), TAPPING	
175	3-392-938-01	GEAR, PULLY	
176	3-318-204-81	SCREW (M1.7X3), TAPPING	
177	3-590-768-00	RING (A), E	
178	3-701-437-11	POLY-SLIDER (A)	
* 179	3-375-381-01	BRACKET ASSY (X), CM	
180	3-392-963-01	SPRING (R)	
181	3-318-204-91	SCREW (M1.7X4), TAPPING	
182	3-375-376-01	MUTE (PWB) (MUTE SWITCH BOARD)	
183	3-375-375-02	BELT (C), SUB	
184	3-392-995-02	FLYWHEEL ASSY (BR)	
* 185	3-392-925-01	ARM (A) ASSY, F.R	
* 186	3-392-939-01	ARM, FF	
* 187	3-392-934-01	ARM (B), F.R	
188	3-392-941-01	PULLEY (A), IDLE	
* 189	4-908-792-11	SCREW (B2)	
190	3-392-967-01	BELT, MAIN	
* 191	3-392-913-01	PULLEY, MOTOR	
M701	X-3364-496-1	MOTOR ASSY (REEL/CAPSTAN)	
S702	1-692-065-11	SWITCH, LEAF (MUTE)	
S703	1-554-790-21	SWITCH, POWER (TAPE DET)	

SECTION 7
ELECTRICAL PARTS LIST

KEY

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u : μ, for example:
  uA.. : μA.. uPA.. : μPA..
  uPB.. : μPB.. uPC.. : μPC.. uPD.. : μPD..
- CAPACITORS
  uF : μF
- COILS
  uH : μH

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description	Remark
		KEY BOARD	
		**********	
*	3-937-557-01	PLATE (LCD), GROUND	
	3-937-558-01	HOLDER (LCD)	
*	3-937-559-01	PLATE (LCD), LIGHT GUIDE	
*	3-937-560-01	SHEET (REFLECTOR)	
		< CAPACITOR >	
C801	1-163-038-00	CERAMIC CHIP 0.1uF	25V
C802	1-163-137-00	CERAMIC CHIP 680PF 5%	50V
		< DIODE >	
D801	8-719-025-31	DIODE 02CZ5.6-TE85L	
D802	8-719-025-31	DIODE 02CZ5.6-TE85L	
D803	8-719-025-31	DIODE 02CZ5.6-TE85L	
D804	8-719-025-31	DIODE 02CZ5.6-TE85L	
D805	8-719-043-82	DIODE 02CZ5.1Y-TE85L	
		< LIQUID CRYSTAL DISPLAY >	
H801	1-801-456-11	DISPLAY PANEL, LIQUID CRYSTAL	
		< IC >	
IC801	8-759-433-68	IC LC75842E	
		< CONNECTOR >	
P801	1-764-423-11	PIN, CONNECTOR 12P	
		< PILOT LAMP >	
PL801	1-517-474-21	LAMP, PILOT (GREEN)	
PL801	1-517-626-11	LAMP, PILOT (AMBER)	
PL802	1-517-474-21	LAMP, PILOT (GREEN)	
PL802	1-517-626-11	LAMP, PILOT (AMBER)	
PL803	1-517-474-21	LAMP, PILOT (GREEN)	
PL803	1-517-626-11	LAMP, PILOT (AMBER)	
PL804	1-517-474-21	LAMP, PILOT (GREEN)	
PL804	1-517-626-11	LAMP, PILOT (AMBER)	

Ref. No.	Part No.	Description	Remark
		< RESISTOR >	
R801	1-216-049-11	METAL GLAZE 1K 5%	1/10W
R802	1-216-049-11	METAL GLAZE 1K 5%	1/10W
R803	1-216-049-11	METAL GLAZE 1K 5%	1/10W
R804	1-216-089-00	METAL GLAZE 47K 5%	1/10W
R805	1-216-057-00	METAL CHIP 2.2K 5%	1/10W
R806	1-216-049-11	METAL GLAZE 1K 5%	1/10W
R807	1-216-091-00	METAL CHIP 56K 5%	1/10W
R841	1-216-056-00	METAL GLAZE 2K 5%	1/10W
R842	1-216-061-00	METAL CHIP 3.3K 5%	1/10W
R844	1-216-070-00	METAL CHIP 7.5K 5%	1/10W
R845	1-216-076-00	METAL CHIP 13K 5%	1/10W
R846	1-216-056-00	METAL GLAZE 2K 5%	1/10W
R847	1-216-061-00	METAL CHIP 3.3K 5%	1/10W
R848	1-216-066-00	METAL CHIP 5.1K 5%	1/10W
R849	1-216-070-00	METAL CHIP 7.5K 5%	1/10W
R850	1-216-056-00	METAL GLAZE 2K 5%	1/10W
R851	1-216-061-00	METAL CHIP 3.3K 5%	1/10W
R852	1-216-066-00	METAL CHIP 5.1K 5%	1/10W
R853	1-216-070-00	METAL CHIP 7.5K 5%	1/10W
		< SWITCH >	
SW801	1-554-813-41	SWITCH, KEY BOARD (OFF)	
SW802	1-554-813-41	SWITCH, KEY BOARD (6)	
SW805	1-554-813-41	SWITCH, KEY BOARD (3)	
SW806	1-554-813-41	SWITCH, KEY BOARD (2/DISC +)	
SW807	1-554-813-41	SWITCH, KEY BOARD (CD)	
SW808	1-554-813-41	SWITCH, KEY BOARD (SENS/LOUD)	
SW809	1-554-813-41	SWITCH, KEY BOARD (SEEK +/AMS ▶▶I/MANU +)	
SW810	1-554-813-41	SWITCH, KEY BOARD (1/DISC –)	
SW811	1-554-813-41	SWITCH, KEY BOARD (DSPL)	
SW812	1-554-813-41	SWITCH, KEY BOARD (FM/AM/A.MEM)	
SW813	1-554-813-41	SWITCH, KEY BOARD (SEEK –/AMS I◀◀/MANU –)	
SW814	1-554-813-41	SWITCH, KEY BOARD (+)	
SW815	1-554-813-41	SWITCH, KEY BOARD (SEL)	
SW816	1-554-813-41	SWITCH, KEY BOARD (–)	
**********			

MAIN

SEE ADDITIONAL INFORMATION

Ref. No.	Part No.	Description			Remark
*	A-3294-168-A	MAIN BOARD, COMPLETE (AEP,UK)			
*	A-3309-500-A	MAIN BOARD, COMPLETE (E)			
		**********			
*	3-937-533-01	BRACKET (IC)			
	7-621-773-95	SCREW +B 2.6X6			
		< CAPACITOR >			
C201	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C202	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C203	1-124-443-00	ELECT	100uF	20%	10V
C204	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C205	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C206	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C208	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V
C209	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V
C303	1-163-139-00	CERAMIC CHIP	820PF	5%	50V
C304	1-163-139-00	CERAMIC CHIP	820PF	5%	50V
C305	1-126-514-11	ELECT	22uF	20%	16V
C306	1-126-514-11	ELECT	22uF	20%	16V
C307	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C308	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C309	1-126-157-11	ELECT	10uF	20%	16V
C401	1-124-257-00	ELECT	2.2uF	20%	50V
C402	1-124-257-00	ELECT	2.2uF	20%	50V
C403	1-126-157-11	ELECT	10uF	20%	16V
C404	1-126-157-11	ELECT	10uF	20%	16V
C405	1-163-011-11	CERAMIC CHIP	0.0015uF	10%	50V
C406	1-163-011-11	CERAMIC CHIP	0.0015uF	10%	50V
C407	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C408	1-124-257-00	ELECT	2.2uF	20%	50V
C409	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C410	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C411	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C412	1-124-257-00	ELECT	2.2uF	20%	50V
C413	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V
C414	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V
C415	1-126-163-11	ELECT	4.7uF	20%	50V
C416	1-126-163-11	ELECT	4.7uF	20%	50V
C451	1-126-163-11	ELECT	4.7uF	20%	50V
C452	1-126-163-11	ELECT	4.7uF	20%	50V
C483	1-115-864-11	ELECT	10uF	20%	16V
C484	1-115-864-11	ELECT	10uF	20%	16V
C501	1-126-163-11	ELECT	4.7uF	20%	50V
C502	1-126-163-11	ELECT	4.7uF	20%	50V
C503	1-126-163-11	ELECT	4.7uF	20%	50V
C504	1-126-163-11	ELECT	4.7uF	20%	50V
C509	1-115-864-11	ELECT	10uF	20%	16V
C510	1-115-864-11	ELECT	10uF	20%	16V

Ref. No.	Part No.	Description			Remark
C512	1-124-556-11	ELECT	2200uF	20%	16V
C521	1-163-251-11	CERAMIC CHIP	100PF	5%	50V (AEP, UK)
C522	1-163-251-11	CERAMIC CHIP	100PF	5%	50V (AEP, UK)
C523	1-163-251-11	CERAMIC CHIP	100PF	5%	50V (AEP, UK)
C524	1-163-251-11	CERAMIC CHIP	100PF	5%	50V (AEP, UK)
C525	1-163-251-11	CERAMIC CHIP	100PF	5%	50V (AEP, UK)
C526	1-163-251-11	CERAMIC CHIP	100PF	5%	50V (AEP, UK)
C527	1-163-251-11	CERAMIC CHIP	100PF	5%	50V (AEP, UK)
C528	1-163-251-11	CERAMIC CHIP	100PF	5%	50V (AEP, UK)
C529	1-126-163-11	ELECT	4.7uF	20%	50V
C541	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C542	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C601	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C602	1-125-701-11	DOUBLE LAYERS	0.047F		5.5V
C603	1-124-584-00	ELECT	100uF	20%	10V
C621	1-163-251-11	CERAMIC CHIP	100PF	5%	50V (AEP, UK)
C622	1-164-162-11	CERAMIC CHIP	100PF	5%	100V
C623	1-163-251-11	CERAMIC CHIP	100PF	5%	50V (AEP, UK)
C701	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C703	1-163-099-00	CERAMIC CHIP	18PF	5%	50V
C704	1-126-163-11	ELECT	4.7uF	20%	50V
C705	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C706	1-126-157-11	ELECT	10uF	20%	16V
C707	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C708	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C709	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C710	1-126-157-11	ELECT	10uF	20%	16V
C711	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C712	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C713	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C714	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C771	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
		< DIODE >			
D301	8-719-982-09	DIODE MTZJ-4.3			
D501	8-719-984-81	DIODE 1SR139-400			
D601	8-719-109-89	DIODE RD5.6ESB2			
D602	8-719-110-14	DIODE RD9.1ES-B3			
D604	8-719-110-08	DIODE RD8.2ES-B2			
D606	8-719-991-33	DIODE 1SS133T-77			

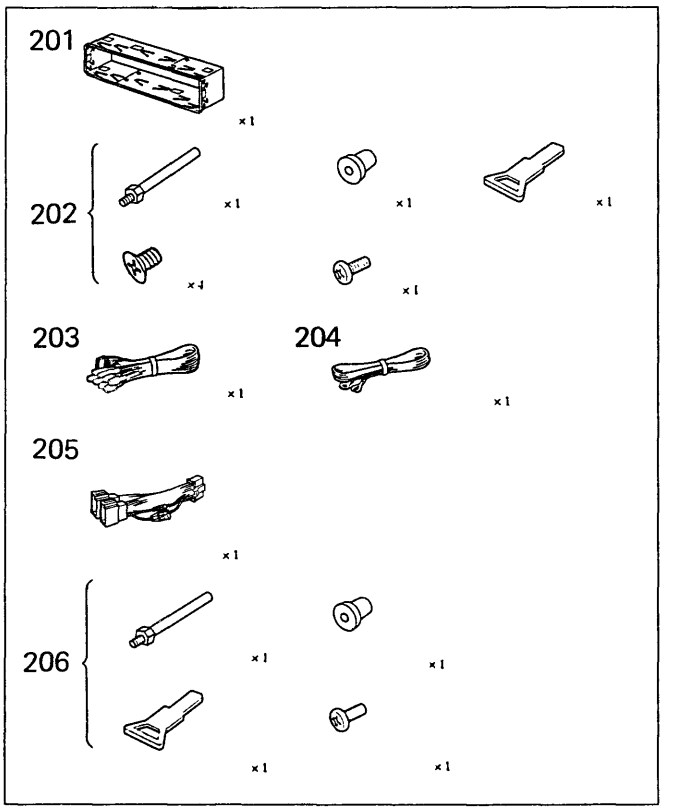
Ref. No.	Part No.	Description	Remark
D607	8-719-061-04	DIODE 1SS145T-77	
D621	8-719-061-04	DIODE 1SS145T-77	
D622	8-719-061-05	DIODE 1N5401(N)	
D711	8-719-109-93	DIODE RD6.2ESB2	
D712	8-719-109-93	DIODE RD6.2ESB2	
D713	8-719-109-93	DIODE RD6.2ESB2	
D714	8-719-109-93	DIODE RD6.2ESB2	
D715	8-719-109-93	DIODE RD6.2ESB2	
D716	8-719-109-93	DIODE RD6.2ESB2	
D717	8-719-109-93	DIODE RD6.2ESB2	
D718	8-719-109-93	DIODE RD6.2ESB2	
D719	8-719-109-93	DIODE RD6.2ESB2	
D771	8-719-109-93	DIODE RD6.2ESB2	
D773	8-719-109-93	DIODE RD6.2ESB2	
D774	8-719-109-93	DIODE RD6.2ESB2	
D775	8-719-109-93	DIODE RD6.2ESB2	
D776	8-719-109-93	DIODE RD6.2ESB2	
		< TUNER >	
ET201	A-3291-810-A	TUNER ASSY (E)	
ET201	A-3294-179-A	TUNER ASSY (AEP, UK)	
		< VIBRATOR >	
F701	1-578-785-11	VIBRATOR, CRYSTAL (4.5MHz)	
		< FUSE >	
F901	1-533-330-11	FUSE (BLADE TYPE) (AUTO FUSE) 10A	
		< IC >	
IC301	8-759-106-02	IC uPC4570G2	
IC401	8-759-161-19	IC TDA7314S	
IC451	8-759-076-15	IC KIA4558P	
IC481	8-759-208-08	IC TC4052BPHB	
IC501	8-759-369-42	IC HA13153	
IC701	8-759-437-26	IC LC72356-9241	
IC771	8-759-096-16	IC MM1175XFF	
		< COIL >	
L621	1-411-669-12	COIL, CHOKE	
L701	1-410-513-11	INDUCTOR 22uH	
		< CONNECTOR >	
* P301	1-573-489-11	PIN, CONNECTOR (PC BOARD) 11P	
P503	1-774-701-11	PIN, CONNECTOR 16P	
P701	1-764-422-11	PLUG, CONNECTOR 12P	
		< JACK >	
PJ502	1-778-536-11	JACK, PIN 4P (BUS AUDIO IN, LINE OUT)	
PJ601	1-580-907-31	PLUG, CONNECTOR 8P (BUS CONTROL IN)	
		< TRANSISTOR >	
Q301	8-729-039-52	TRANSISTOR KTA1272OY-AT	
Q302	8-729-901-00	TRANSISTOR DTC124EK	
Q501	8-729-900-98	TRANSISTOR DTC143TK	
Q502	8-729-900-98	TRANSISTOR DTC143TK	
Q503	8-729-900-98	TRANSISTOR DTC143TK	
Q504	8-729-900-98	TRANSISTOR DTC143TK	
Q505	8-729-901-05	TRANSISTOR DTA124EK	
Q506	8-729-901-00	TRANSISTOR DTC124EK	
Q507	8-729-028-63	TRANSISTOR DTA115TKA-T146	
Q601	8-729-039-53	TRANSISTOR KTC3113B-AT	
Q602	8-729-039-83	TRANSISTOR 2SD1858-QR-TV2	
Q603	8-729-016-43	TRANSISTOR KTC3199Y-TP	
Q604	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q605	8-729-039-52	TRANSISTOR KTA1272OY-AT	
Q606	8-729-901-00	TRANSISTOR DTC124EK	
Q621	8-729-039-82	TRANSISTOR 2SB1326-QR-TV2	
Q622	8-729-901-00	TRANSISTOR DTC124EK	
Q701	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q702	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
		< RESISTOR >	
R201	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R202	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R204	1-216-049-11	METAL GLAZE 1K 5% 1/10W	
R205	1-216-049-11	METAL GLAZE 1K 5% 1/10W	
R207	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R208	1-216-085-00	METAL CHIP 33K 5% 1/10W	
R209	1-216-049-11	METAL GLAZE 1K 5% 1/10W	
R210	1-216-049-11	METAL GLAZE 1K 5% 1/10W	
R213	1-216-295-00	CONDUCTOR, CHIP (2012)	
R301	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R302	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R303	1-216-031-00	METAL CHIP 180 5% 1/10W	
R304	1-216-031-00	METAL CHIP 180 5% 1/10W	
R307	1-216-109-00	METAL CHIP 330K 5% 1/10W	
R308	1-216-109-00	METAL CHIP 330K 5% 1/10W	
R309	1-216-077-00	METAL CHIP 15K 5% 1/10W	
R310	1-216-077-00	METAL CHIP 15K 5% 1/10W	
R311	1-216-049-11	METAL GLAZE 1K 5% 1/10W	
R321	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R322	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R323	1-216-077-00	METAL CHIP 15K 5% 1/10W	
R324	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R325	1-216-077-00	METAL CHIP 15K 5% 1/10W	
R326	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R403	1-216-073-00	METAL CHIP 10K 5% 1/10W	

MAIN

Ref. No.	Part No.	Description			Remark
R404	1-216-073-00	METAL CHIP	10K	5%	1/10W
R405	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R407	1-216-037-00	METAL CHIP	330	5%	1/10W
R408	1-216-037-00	METAL CHIP	330	5%	1/10W
R410	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R411	1-216-081-00	METAL CHIP	22K	5%	1/10W
R412	1-216-081-00	METAL CHIP	22K	5%	1/10W
R413	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R451	1-216-077-00	METAL CHIP	15K	5%	1/10W
R452	1-216-077-00	METAL CHIP	15K	5%	1/10W
R453	1-216-083-00	METAL CHIP	27K	5%	1/10W
R454	1-216-083-00	METAL CHIP	27K	5%	1/10W
R481	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R482	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R485	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R486	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R487	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R488	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R489	1-216-085-00	METAL CHIP	33K	5%	1/10W
R490	1-216-085-00	METAL CHIP	33K	5%	1/10W
R491	1-216-085-00	METAL CHIP	33K	5%	1/10W
R492	1-216-085-00	METAL CHIP	33K	5%	1/10W
R493	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R494	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R501	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R502	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R503	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R504	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R505	1-216-059-00	METAL CHIP	2.7K	5%	1/10W
R506	1-216-079-00	METAL CHIP	18K	5%	1/10W
R507	1-216-081-00	METAL CHIP	22K	5%	1/10W
R508	1-216-073-00	METAL CHIP	10K	5%	1/10W
R509	1-216-079-00	METAL CHIP	18K	5%	1/10W
R510	1-216-059-00	METAL CHIP	2.7K	5%	1/10W
R511	1-216-073-00	METAL CHIP	10K	5%	1/10W
R512	1-216-081-00	METAL CHIP	22K	5%	1/10W
R513	1-216-081-00	METAL CHIP	22K	5%	1/10W
R514	1-216-073-00	METAL CHIP	10K	5%	1/10W
R523	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R524	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R541	1-216-113-00	METAL CHIP	470K	5%	1/10W
R542	1-216-121-00	METAL GLAZE	1M	5%	1/10W
R543	1-216-121-00	METAL GLAZE	1M	5%	1/10W
R544	1-216-113-00	METAL CHIP	470K	5%	1/10W
R545	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R601	1-216-025-00	METAL GLAZE	100	5%	1/10W
R602	1-216-085-00	METAL CHIP	33K	5%	1/10W
R603	1-216-041-00	METAL CHIP	470	5%	1/10W
R604	1-216-043-00	METAL GLAZE	560	5%	1/10W
R605	1-216-073-00	METAL CHIP	10K	5%	1/10W
R606	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R609	1-216-081-00	METAL CHIP	22K	5%	1/10W
R610	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R613	1-216-073-00	METAL CHIP	10K	5%	1/10W
R621	1-216-081-00	METAL CHIP	22K	5%	1/10W
R622	1-247-232-11	CARBON	470	5%	1/2W
R701	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R702	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R703	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R705	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R708	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R709	1-216-075-00	METAL CHIP	12K	5%	1/10W
R710	1-216-081-00	METAL CHIP	22K	5%	1/10W
R711	1-216-081-00	METAL CHIP	22K	5%	1/10W
R712	1-216-081-00	METAL CHIP	22K	5%	1/10W
R713	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R714	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R715	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R716	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R717	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R718	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R719	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R720	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R721	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R722	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R723	1-216-097-00	METAL GLAZE	100K	5%	1/10W (E)
R725	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R726	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R727	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R731	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R732	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R733	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R734	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R735	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R736	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R737	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R738	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R739	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R740	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R771	1-216-073-00	METAL CHIP	10K	5%	1/10W
R772	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R773	1-216-001-00	METAL CHIP	10	5%	1/10W
R774	1-216-001-00	METAL CHIP	10	5%	1/10W
R775	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R776	1-216-073-00	METAL CHIP	10K	5%	1/10W

Ref. No.	Part No.	Description	Remark
		< SWITCH >	
SW702	1-762-459-11	SWITCH, SLIDE (FREQUENCY SELECT) (E)	
SW703	1-554-088-00	SWITCH, KEY BOARD (RESET)	
		< THERMISTOR >	
TH621	1-809-148-11	THERMISTOR PTH8L07AR2R0M1B510	
**********			
		SWITCH BOARD	
		**********	
*	3-009-000-01	HOLDER (SWITCH PC BOARD)	
		< RESISTOR >	
R943	1-216-066-00	METAL CHIP 5.1K 5% 1/10W	
		< SWITCH >	
SW903	1-554-813-41	SWITCH, KEY BOARD (5)	
SW904	1-554-813-41	SWITCH, KEY BOARD (4)	
**********			
		MISCELLANEOUS	
		**********	
1	1-776-207-31	CORD (WITH CONNECTOR) (POWER) (E)	
21	1-777-898-11	CORD (WITH CONNECTOR) (POWER) (AEP, UK)	
F901	1-533-330-11	FUSE (BLADE TYPE) (AUTO FUSE) 10A	
HP701	1-543-717-11	HEAD, MAGNETIC (PLAYBACK)	
M701	X-3364-496-1	MOTOR ASSY (REEL/CAPSTAN)	
S701	1-692-502-11	SWITCH, SLIDE (DIRECTION)	
S702	1-692-065-11	SWITCH, LEAF (MUTE)	
S703	1-554-790-21	SWITCH, POWER (TAPE DET)	
**********			
		ACCESSORIES & PACKING MATERIALS	
		**********	
	1-465-459-11	ADAPTOR, ANTENNA (AEP, UK)	
	3-856-658-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH, DUTCH) (AEP, UK)	
	3-856-658-21	MANUAL, INSTRUCTION (GERMAN, SPANISH, SWEDISH, ITALIAN, PORTUGUESE) (AEP, UK)	
	3-856-658-61	MANUAL, INSTRUCTION (ENGLISH, SPANISH, CHINESE) (E)	
	3-856-659-11	MANUAL, INSTRUCTION, INSTALL (ENGLISH, FRENCH, DUTCH) (AEP, UK)	
	3-856-659-21	MANUAL, INSTRUCTION, INSTALL (GERMAN, SPANISH, SWEDISH, ITALIAN, PORTUGUESE) (AEP, UK)	
	3-856-659-61	MANUAL, INSTRUCTION, INSTALL (ENGLISH, SPANISH, CHINESE) (E)	
	X-3372-303-1	CASE ASSY	
**********			

Ref. No.	Part No.	Description	Remark
		**********	
		HARDWARE LIST	
		**********	
#1	7-621-773-95	SCREW +B 2.6X6	
#2	7-621-775-10	SCREW +B 2.6X4	
#3	7-685-547-19	SCREW +BTP 3X10 TYPE2 N-S	
#4	7-621-775-08	SCREW +P 2.6X3	
#5	7-627-553-88	SCREW, PRECISION +P 2X7	
#6	7-621-255-15	SCREW +P 2X3	
#7	7-621-255-20	SCREW +P 2X4	
#8	7-621-255-25	SCREW +PTT 2X4 (S)	
#9	7-621-555-10	SCREW +K 2X3	
#10	7-621-591-00	SCREW +K 2X4	
#11	7-624-102-04	STOP RING 1.5, TYPE -E	
#12	7-624-104-04	STOP RING 2.0, TYPE -E	
#13	7-624-118-01	RING, RETAINING E-2.5	
**********			
		PARTS FOR INSTALLATION AND CONNECTIONS	
		**********	
201	X-3368-734-1	FRAME ASSY, FITTING	
202	X-3372-295-1	SCREW ASSY (J) (E)	
203	1-776-207-31	CORD (WITH CONNECTOR) (POWER) (E)	
204	1-575-616-21	CORD (WITH TERMINAL) (CHASSIS EARTH)	
205	1-777-898-11	CORD (WITH CONNECTOR) (POWER) (AEP, UK)	
206	X-3372-372-1	SCREW ASSY (AEP, UK)	



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XR-C100

SONY

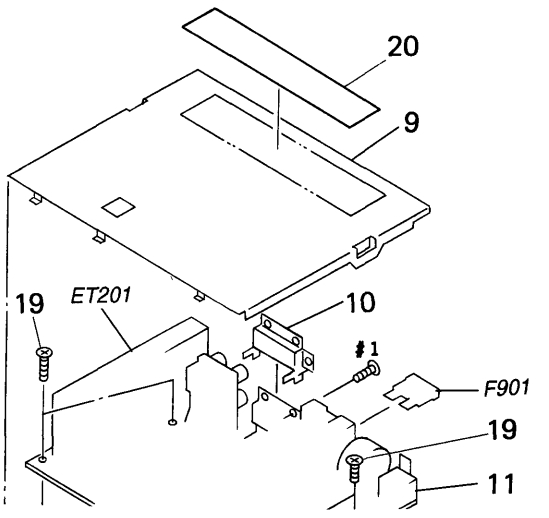
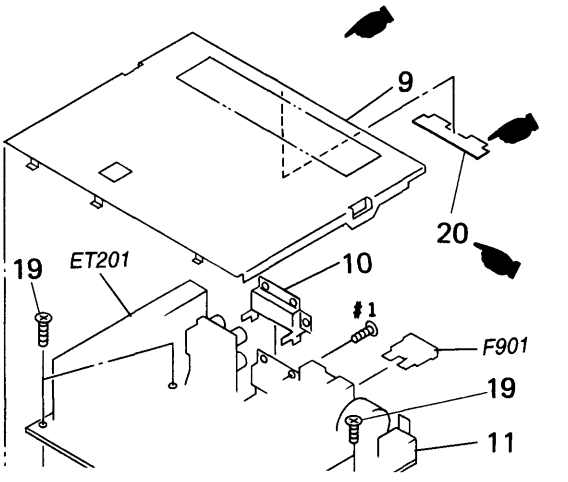
SERVICE MANUAL

AEP Model
UK Model
E Model

CORRECTION-1

Correct your service manual as shown below.

☛ : indicates corrected portion.

Page	INCORRECT	CORRECT
27	 Ref. No. Part No. Description Remark * 11 A-3309-500-A MAIN BOARD, COMPLETE	 Part No. Description Remark * A-3294-139-A MAIN BOARD, COMPLETE

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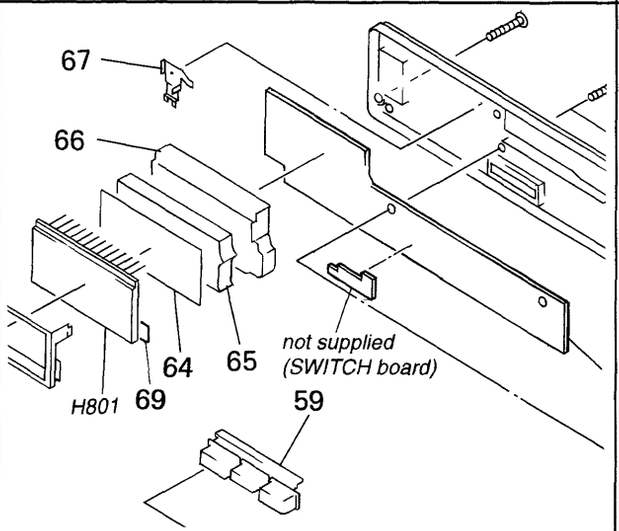

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<tr><th>Ref. No.</th><th>Part No.</th><th>Description</th><th>Remark</th></tr>
<tr><td>58</td><td>3-007-659-01</td><td>PANEL, FRONT</td><td></td></tr>
<tr><td>* 60</td><td>3-937-556-01</td><td>PLATE, LIGHT GUIDE</td><td></td></tr>
<tr><td>61</td><td>3-007-666-01</td><td>BUTTON (1-3)</td><td></td></tr>
<tr><td>62</td><td>3-007-664-01</td><td>BUTTON (FM/AM)</td><td></td></tr>
<tr><td>68</td><td>3-937-554-01</td><td>PANEL, FRONT BACK</td><td></td></tr>
<tr><td>* 69</td><td>3-939-555-01</td><td>PLATE, LIGHT INTERCEPTION</td><td></td></tr>
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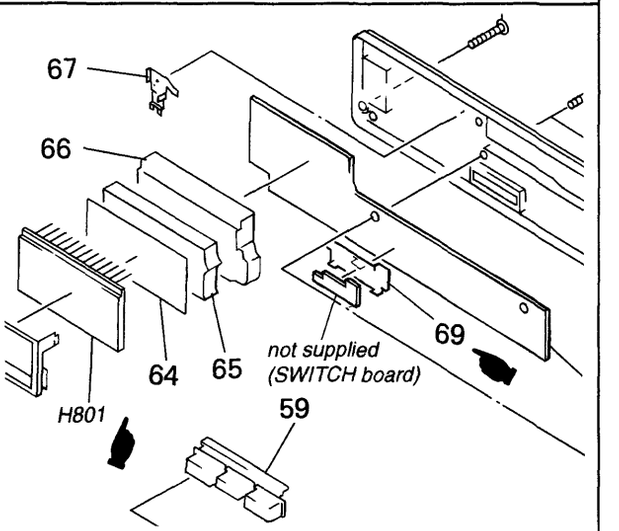

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<tr><td>3-939-883-01</td><td>PANEL, FRONT</td><td></td></tr>
<tr><td>* 3-939-881-01</td><td>PLATE (BUTTON), LIGHT GUIDE</td><td></td></tr>
<tr><td>3-939-875-01</td><td>BUTTON (1-3)</td><td></td></tr>
<tr><td>3-939-876-01</td><td>BUTTON (FM/MW+CD)</td><td></td></tr>
<tr><td>3-939-882-01</td><td>PANEL, FRONT BACK</td><td></td></tr>
<tr><td>* 3-009-000-01</td><td>HOLDER (SWITCH BOARD)</td><td></td></tr>
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<tr><td>32</td><td>* A-3309-500-A MAIN BOARD, COMPLETE</td><td>* A-3294-139-A MAIN BOARD, COMPLETE</td></tr>
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9-923-583-91

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XR-C100

SONY

SERVICE MANUAL

AEP Model
UK Model
E Model

CORRECTION-2

Correct your service manual as shown below.

☛ : indicates corrected portion.

Page	INCORRECT				CORRECT		
28	Ref. No.	Part No.	Description	Remark	Part No.	Description	Remark
	* 60	3-937-556-01	PLATE, LIGHT GUIDE		* 3-939-881-01	PLATE (BUTTON), LIGHT GUIDE	
	62	3-939-876-01	BUTTON (FM/AM)		3-939-876-01	BUTTON (FM/AM+CD)	

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